CT A – DREDGE PONDS (SOUTHERN END)

CT A – MAIN DREDGE POND FACING EAST

CT A – STOCKPILE OF RUBBISH IN SOUTH-WESTERN AREA

CT A – NORTHERN AREA OF PORTION A (FACING NORTH FROM MAIN DREDGE POND)

JBS&G

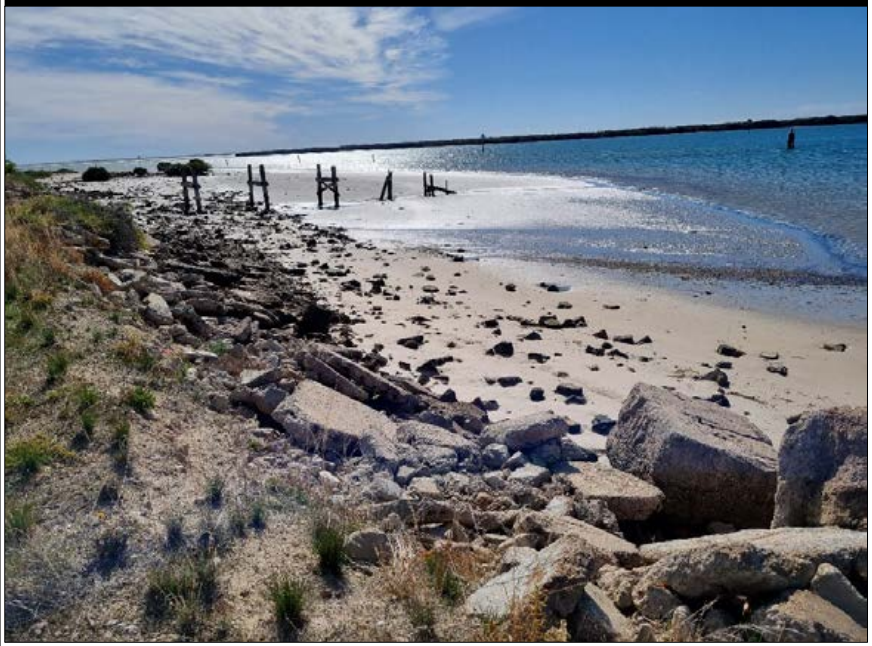
Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A1

CT A – ALIGNMENT OF EPIC ENERGY GAS PIPELINE

CT A – CONCRETE SLABS AND OTHER FILL ALONG EASTERN BOUNDARY



CT A – STOCKPILE MATERIAL BUILT UP NEAR EASTERN BOUNDARY

CT A – EASTERN DREDGE POND

JBS&G

Job No: 67064

Client: URPS

Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL

Not to Scale

Coord. Sys n/a

Osborne, South Australia

FIGURE A2

CT B – FACING SOUTH-EAST FROM NORTH-WESTERN CORNER

CT C – FACING SOUTH FROM NORTHERN BOUNDARY

CT B – FACING NORTH-EAST FROM SOUTH-WESTERN CORNER

CT C – NORTHERN BOUNDARY

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A3

CT D – NORTHERN END

CT E – ENTRANCE ON EASTERN SIDE

CT D – EASTERN SIDE

CT E – RUBBISH ON INSIDE OF EASTERN ENTRANCE

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A4

CT E – FACING WEST FROM CENTRE OF PORTION E

CT F – DENSE VEGETATION ALONG SOUTHERN FENCE

CT E – FACING SOUTH FROM WESTERN SIDE OF PORTION E

CT F – UNSEALED TRACK, FACING SOUTH

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A5

CT G – BOGGY PORTIONS ALONG EASTERN SIDE

CT H – WET PORTION ALONG EASTERN SIDE WITH REEDS

CT G – FACING WEST FROM EASTERN SIDE

CT H – FACING SOUTH

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A6

CT I – FACING SOUTH-EAST FROM NORTH-WEST

CT J – FACING EAST FROM WESTERN END

CT I – TURNAROUND PORTION AT NORTHERN END OF ARCHIE BADENOCH CIRCUIT

CT J – PORTION OF DEPRESSED GROUND

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

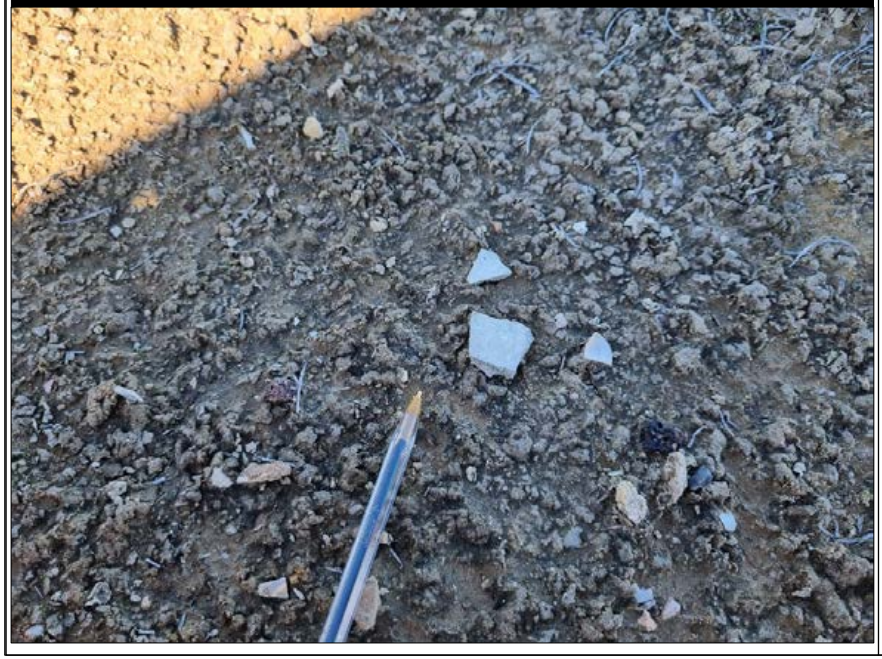
Osborne, South Australia

FIGURE A7

CT K – FACING WEST FROM EASTERN SIDE

CT O – LAYDOWN AREA WITH PRECAST SLAB AND MATERIALS STORAGE

CT K – POSSIBLE ACM FRAGMENT



CT L – RUBBISH ALONG FENCE LINE

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A8

CT L – NORTHERN FENCE LINE

CT M – FACING WEST

CT L – DRAINAGE SWALE ALONG WESTERN SIDE

CT M – FACING SOUTH

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A9

CT N – OLD FENCE POSTS ACROSS PORTION

CT P – SOUTHERN BOUNDARY FACING WEST

CT N – DENSE VEGETATION AT EASTERN SIDE

CT P – WESTERN SIDE

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A10

CT Q – SOUTHERN BOUNDARY, EASTERN END

CT R/S/T – LOCATION OF FORMER SITE HUTS

CT Q – FACING WEST

CT R/S/T – FACING SOUTH-WEST

JBS&G

Job No: 67064	
Client: URPS	
Version: DRAFT	Date: 12-Jul-2023
Drawn By: AJ	Checked By: KL
Not to Scale	
Coord. Sys n/a	

Osborne, South Australia

FIGURE A11

CT W FACING – SOUTH FROM NORTH-WESTERN CORNER OF PORTION W

CT W – FACING NORTH-WEST FROM APPROXIMATE CENTRE OF PORTION W

CT W – FACING SOUTH-EAST FROM NORTH-WESTERN CORNER OF PORTION W

CT W – DEPICTING EMBANKMENT ALONG SOUTH-EASTERN BOUNDARY

JBS&G

Job No: 67064

Client: URPS

Version: DRAFT | Date: 12-Jul-2023

Drawn By: AJ | Checked By: KL

Not to Scale

Coord. Sys n/a

Osborne, South Australia

FIGURE A12

Appendix B Historical CT Ownership

Summary of Historical CT Ownership

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area 1			
6282/175 (CT DD)	1920	Government Bodies / Local Council • Treasurer • Distribution Lessor Corporation (subsidiary of the Treasurer of South Australia) • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • City of Port Adelaide Enfield • Australian Naval Infrastructure Pty Ltd • Urban Renewal Authority • South Australian Water Corporation Energy Supply Companies • Adelaide Electric Supply Company Limited • ETSA Transmission Corporation • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • South Australian Gas Company • National Power South Australia Investments • Seagas • South East Australia Gas Oil companies • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited Developers • MFP Development Corporation Other (private companies) • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) Individuals Various, generally no occupation listed with the exception of architect and accountant	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
6261/182 (CT EE)	1920	<u>Government Bodies / Local Council</u> • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • City of Port Adelaide Enfield • Australian Naval Infrastructure Pty Ltd • Urban Renewal Authority <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • ETSA Transmission Corporation • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • South Australian Gas Company <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation <u>Other (private companies)</u> • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) <u>Individuals</u> • George Burnett (no occupation listed) • Fredrick Francis Burmeister (no occupation listed • Colin Fanshaw and Wendy Dorothy Fanshaw (no occupation listed) • Peter John Vickers and Rohana Elsie Vickers (no occupation listed) • Anthony Place and Valerie Place (no occupation listed)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
6231/5 (CT GG)	1920	Government Bodies / Local Council • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • South Australian Harbors Board of Adelaide • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • South Australian Housing Trust • City of Port Adelaide Enfield Energy Supply Companies • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • South Australian Gas Company • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • Seagas • South East Australia Gas Pty. Ltd. Oil companies • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited Developers • MFP Development Corporation Other (private companies) • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) • Subtrade of SB Pty Ltd (business unknown) Individuals • Colin Fanshaw and Wendy Dorothy Fanshaw (no occupation listed) • Peter John Vickers and Rohana Elsie Vickers (no occupation listed) • Anthony Place and Valerie Place (no occupation listed)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area 2			
• CT 6088/190 • CT 6088/170 • CT 6088/171 • CT 6088/174 • CT 6088/175 • CT 6088/177 • CT 6088/183 • CT 6088/184 • CT 6088/185 • CT 6088/186 • CT 6088/188 • CT 6088/189 • CT 6191/176 • CT 6191/178 • CT 6191/179 • CT 6191/180 • CT 6191/181 • CT 6191/182 • CT 6236/388	From 1874 to 1937 (numerous original CTs)	<u>Government Bodies / Local Council</u> • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • South Australian Housing Trust • Elders Trustee and Executor Company Limited • City of Port Adelaide Enfield <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • Epic Energy South Australia Pty. Ltd. • South Australian Gas Company • Txu Sea Gas Spv1 Pty. Ltd. • South East Australia Gas Pty. Ltd. • Oe Sea Gas Spv3 Pty. Ltd. • Txu Sea Gas Spv2 Pty. Ltd. <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation • The Rural Estate and Development Company Limited • Adelaide Development Co. Pty. Limited <u>Other (private companies)</u> • Truran Earthmovers Proprietary Limited (earthmovers) • A.L. Coyley and Co Limited (business unknown) • The Income Jase Compilen Company Limited (business unknown) <u>Individuals</u> • Jabez Tilly (retired farmer) • Cecil Mark Retallick (Chemist)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
CT 6060/497	1876 / 1923 (two original CTs)	Government Bodies / Local Council • The South Australian Harbors Board • Minister of Marine • Minister Of Transport Development • Minister For Environment and Conservation • Australian National Railways Commission • City Of Port Adelaide Enfield Energy Supply Companies • South Australian Gas Company • Electricity Trust of South Australia • ETSA Transmission Corporation Developers • MFP Development Corporation Other (private companies) • Truran Earthmovers Proprietary Limited (earthmovers) • CSR Limited (building product supplier)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area 3			
CT 6088/191	From 1874 to 1937 (numerous original CTs)	<u>Government Bodies / Local Council</u> • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • South Australian Housing Trust • Elders Trustee and Executor Company Limited • City of Port Adelaide Enfield <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • Epic Energy South Australia Pty. Ltd. • South Australian Gas Company • Txu Sea Gas Spv1 Pty. Ltd. • South East Australia Gas Pty. Ltd. • Oe Sea Gas Spv3 Pty. Ltd. • Txu Sea Gas Spv2 Pty. Ltd. <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation • The Rural Estate and Development Company Limited • Adelaide Development Co. Pty. Limited <u>Other (private companies)</u> • Truran Earthmovers Proprietary Limited (earthmovers) • A.L. Coyley and Co Limited (business unknown) • The Income Jase Compilen Company Limited (business unknown) <u>Individuals</u> • Jabez Tilly (retired farmer) • Cecil Mark Retallick (Chemist)	Australian Naval Infrastructure Pty Ltd

Summary of Historical CT Ownership

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area A			
6282/175 (CT DD)	1920	<u>Government Bodies / Local Council</u> • Treasurer • Distribution Lessor Corporation (subsidiary of the Treasurer of South Australia) • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • City of Port Adelaide Enfield • Australian Naval Infrastructure Pty Ltd • Urban Renewal Authority • South Australian Water Corporation <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • ETSA Transmission Corporation • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • South Australian Gas Company • National Power South Australia Investments • Seagas • South East Australia Gas <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation <u>Other (private companies)</u> • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) <u>Individuals</u> Various, generally no occupation listed with the exception of architect and accountant	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
6261/182 (CT EE)	1920	Government Bodies / Local Council • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • City of Port Adelaide Enfield • Australian Naval Infrastructure Pty Ltd • Urban Renewal Authority Energy Supply Companies • Adelaide Electric Supply Company Limited • ETSA Transmission Corporation • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • South Australian Gas Company Oil companies • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited Developers • MFP Development Corporation Other (private companies) • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) Individuals • George Burnett (no occupation listed) • Fredrick Francis Burmeister (no occupation listed • Colin Fanshaw and Wendy Dorothy Fanshaw (no occupation listed) • Peter John Vickers and Rohana Elsie Vickers (no occupation listed) Anthony Place and Valerie Place (no occupation listed)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
6231/5 (CT GG)	1920	Government Bodies / Local Council • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • South Australian Harbors Board of Adelaide • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • South Australian Housing Trust • City of Port Adelaide Enfield Energy Supply Companies • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • South Australian Gas Company • Electricity Trust of South Australia • Transmission Lessor Corporation Electranet Pty Ltd • Seagas • South East Australia Gas Pty. Ltd. Oil companies • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited Developers • MFP Development Corporation Other (private companies) • Pearce Transport Pty Ltd (transport company) • Truran Earthmovers Proprietary (earthmovers) • CSR Limited (producer of building products) • Subtrade of SB Pty Ltd (business unknown) Individuals • Colin Fanshaw and Wendy Dorothy Fanshaw (no occupation listed) • Peter John Vickers and Rohana Elsie Vickers (no occupation listed) Anthony Place and Valerie Place (no occupation listed)	Australian Naval Infrastructure Pty Ltd

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area B			
• CT 6088/190 • CT 6088/170 • CT 6088/171 • CT 6088/174 • CT 6088/175 • CT 6088/177 • CT 6088/183 • CT 6088/184 • CT 6088/185 • CT 6088/186 • CT 6088/188 • CT 6088/189 • CT 6191/176 • CT 6191/178 • CT 6191/179 • CT 6191/180 • CT 6191/181 • CT 6191/182 • CT 6236/388	From 1874 to 1937 (numerous original CTs)	<u>Government Bodies / Local Council</u> • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • South Australian Housing Trust • Elders Trustee and Executor Company Limited • City of Port Adelaide Enfield <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • Epic Energy South Australia Pty. Ltd. • South Australian Gas Company • Txu Sea Gas Spv1 Pty. Ltd. • South East Australia Gas Pty. Ltd. • Oe Sea Gas Spv3 Pty. Ltd. • Txu Sea Gas Spv2 Pty. Ltd. <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation • The Rural Estate and Development Company Limited • Adelaide Development Co. Pty. Limited <u>Other (private companies)</u> • Truran Earthmovers Proprietary Limited (earthmovers) • A.L. Coyley and Co Limited (business unknown) • The Income Jase Compilen Company Limited (business unknown) <u>Individuals</u> • Jabez Tilly (retired farmer) Cecil Mark Retallick (Chemist)	Urban Renewal Authority

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
CT 6060/497	1876 / 1923 (two original CTs)	Government Bodies / Local Council • The South Australian Harbors Board • Minister of Marine • Minister Of Transport Development • Minister For Environment and Conservation • Australian National Railways Commission • City Of Port Adelaide Enfield Energy Supply Companies • South Australian Gas Company • Electricity Trust of South Australia • ETSA Transmission Corporation Developers • MFP Development Corporation Other (private companies) • Truran Earthmovers Proprietary Limited (earthmovers) CSR Limited (building product supplier)	Urban Renewal Authority

Current CT	Year of Original CT	Historical Owners / Lessees of Interest	Current Owner
Area C			
CT 6088/191	From 1874 to 1937 (numerous original CTs)	<u>Government Bodies / Local Council</u> • Treasurer • South Australian Ports Corporation • South Australian Harbors Board • Minister Of Marine • Minister For Economic Development • Minister For Environment and Conservation • Australian National Railways Commission • South Australian Housing Trust • Elders Trustee and Executor Company Limited • City of Port Adelaide Enfield <u>Energy Supply Companies</u> • Adelaide Electric Supply Company Limited • National Power South Australia Investments Ltd. • ETSA Transmission Corporation • Epic Energy South Australia Pty. Ltd. • South Australian Gas Company • Txu Sea Gas Spv1 Pty. Ltd. • South East Australia Gas Pty. Ltd. • Oe Sea Gas Spv3 Pty. Ltd. • Txu Sea Gas Spv2 Pty. Ltd. <u>Oil companies</u> • Vacuum Oil Company Proprietary Limited • Shell Company of Australia Limited • Texas Company (Australasia) Limited <u>Developers</u> • MFP Development Corporation • The Rural Estate and Development Company Limited • Adelaide Development Co. Pty. Limited <u>Other (private companies)</u> • Truran Earthmovers Proprietary Limited (earthmovers) • A.L. Coyley and Co Limited (business unknown) • The Income Jase Compilen Company Limited (business unknown) <u>Individuals</u> • Jabez Tilly (retired farmer) Cecil Mark Retallick (Chemist)	Urban Renewal Authority

Ownership History for CT 6282/175 (CT DD)

Property Description	Certificate of Title	Parent Title	Date	Details
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	**The South Australian Harbors Board**
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Block number 10 in the Hundred of Port Adelaide county of Adelaide	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
Allotment 5 of Section 825 in Osbourne East	Volume 1213 Folio 169	Volume 239 Folio 64 *no electronic copy	8 October 1921	Transferred to **William George Fuller (architect)** and **Herbert Henry Attiwell (accountant)**
			13 October 1929	Transferred to **Herbert Frank Schultz**
			15 October 1929	Transferred to **Jospeh Ernst Dallity**
			29 July 1930	Transferred to **Sophie Pauline Heiffer**
			18 January 1934	Transferred to **Thelma Manwaring Beech**
			10 July 1935	Transferred to **Walter Maxwell Burgess Meyer and Vera Helena Meyer**
			1 August 1939	Transferred to **Herbet Walter Bochin**
			19 December 1949	Transferred to **Edith Blanche Elizabeth Attiwell**
			3 January 1950	Transferred to **Samual Lonard Jerkins**
			5 January 1950	Transferred to **Minnie Fyfe**
			19 April 1950	Transferred to **Johanna Blarance Meldmer**
			19 July 1951	Transferred to **The South Australian Harbour Board**
			21 January 1952	Transferred to **The South Australian Harbour Board**
			27 June 1952	Transferred to **The South Australian Harbour Board**
			31 January 1962	Transferred to **The Corporation of the City of Port Adelaide**
Allotment 6 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 1733 Folio 55	Volume 1213 Folio 169	10 August 1939	Transferred to **Herbet Walter Boehm**
			25 February 1952	Transferred to **South Australian Harbour Board of Adelaide**

Allotment 1 and 2 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 2197 Folio 188	Volume 1213 Folio 169	10 April 1952	Transferred to **South Australian Harbour Board of Adelaide**
Allotment 3 and 4 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 2213 Folio 185	Volume 1213 Folio 169	8 July 1952	Transferred to **South Australian Harbour Board of Adelaide**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 2243 Folio 172	Volume 1213 Folio 169	2 January 1953	Transferred to **South Australian Harbour Board of Adelaide**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 3137 Folio 4	*multiple parent CT's but no electronic copies	25 January 1963	Transferred to **South Australian Harbour Board of Adelaide**
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited

			7 December 1927	Leased to the South Australian Gas Company
			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
			9 March 1939	The South Australian Harbors Board
Allotment 5 situated in the Hundred of Port Adelaide and Section 825 laid out as Osbourne East	Volume 1489 Folio 167	Volume 1213 Folio 169	14 November 1927	Transferred to **Herbet Frank Schultz**
			11 June 1952	Transferred to **The South Australian Harbour Board**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	**Minister Of Marine**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 3906 Folio 32	Volume 3137 Folio 4	13 February 1973	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Section 604, 781, and 782 and portions of sections 488, 777, 778, 779, and 780	Volume 4054 Folio 989	*Extensive CT's that no longer exist	12 December 1975	Transferred to the **Minister of Marine**
			26 March 1976	Transferred to T**he Australian Mutual Provident Society**
			12 October 1976	Transferred to **The Australian Mutual Provident Society**
			30 November 1976	Transferred to **The Corporation of the City of Port Adelaide**
			9 February 1977	Transferred to **The Australian Mutual Provident Society**
			7 July 1978	Transferred to **The Australian Mutual Provident Society**
Allotment 3 and Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Transferred to the **Minister of Marine**
			1 July 1927	Lease to **South Australian Gas Company**
			11 March 1940	Lease to **The Electricity Trust of South Australia**
			28 March 1949	Lease to **The Electricity Trust of South Australia**
			9 May 1957	Lease to **South Australia Gas Company**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	**Minister of Marine**
			24 June 1977	Transferred to **Coln Fanshaw and Wendy Dorothy Fanshaw**
			24 June 1977	Transferred to **Peter John Vickers and Rohana Elsie Vickers**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	**Minister of Marine**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Transferred to **Minister of Marine**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Transferred to Minister of Marine
			7 March 1985	Portion of section transferred to **Anthony Place and Valerie Place**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	**Minister of Marine**
	Volume 4146	Volume 4054	16 August 1979	Transferred to the **Minister of Marine**

Section 604 and portions of 488, 779, 781, 782 of Hundred of Port Adelaide in the areas named North Haven and Outer Harbor	Folio 765	Folio 989	9 May 1980	Portion transferred to the **Australia Mutual Provident Society**
			11 August 1980	Portion transferred to the **Australia Mutual Provident Society**
			11 August 1980	Remaining portion transferred to the **Australia Mutual Provident Society**
Allotment 3 and Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Transferred to the **Minister of Marine**
			1 July 1972	Leased to **South Australian Gas Company**
			11 March 19400	Leased to the **Electricity Trust of Soutth Australia**
			28 March 1949	Leased to the **Electricity Trust of Soutth Australia**
			9 May 1957	Leased to **CSR Limited**
			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary Limited**
			7 March 1985	Transferred to **Anthony Place and Valeria Place**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 4078 Folio 531	Original	23 November 1976	**Minister of Marine**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	**Minister of Marine**
Allotment 19 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4306 Folio 337	Volume 4117 Folio 963	18 November 1987	Transferred to the **Minister of Marine**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 4306 Folio 340	Volume 4248 Folio 590	18 November 1987	Transferred to **Minister of Marine**

Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 420	Volume 4306 Folio 339	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5179 Folio 222	Volume 1276 Folio 200	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5179 Folio 221	Volume 1276 Folio 200	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation and ETSA Transmission Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the	Volume 5216 Folio 528	Volume 5179 Folio 222	22 September 1994	Unable to view due to electronic certificate

area named Outer Harbor				Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 6 and 24 and other land Hundred of Port Adelaide in the area named outer Harbour	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Volume 274	Volume 5128 Folio 414 Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 41 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5651 Folio 55	Volume 5421 Folio 435	7 May 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	7 May 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer and ETSA Transmission Corporation**

Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5718 Folio 560	Volume 5651 Folio 55	10 December 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275 Volume 5163 Folio 279 Volume 5163 Folio 280	4 June 1999	Uble to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development, Minister for Environment and Conservation and Transmission Lessor Corporation Electranet Pty Ltd.**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 30 Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 52266	Volume 5660 Folio 235	Volume 5651 Folio 62	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 240	Volume 5163 Folio 274	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 23 of Land Hundred of Port Adelaide in the area named Outer Harbour Deposited Plan D52266	Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 23 of Land Hundred of Port Adelaide in the area named Outer Harbour Deposited Plan D52266	Volume 5660 Folio 237	Volume 5651 Folio 56	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Unable to view due to electronic certificate

named Outer Harbor Deposited Plan 20023				Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5732 Folio 370	Volume 5301 Folio 158 Volume 5660 Folio 240 Volume 5660 Folio 243	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 100 of Port Adelaide and in the areas named North Haven and Outer Harbour	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 13 of portion of Section 488 and other land Hundred of Port Adelaide ad in the areas named North Haven and Outer Harbour	Volume 4214 Folio 975	Volume 4146 Folio 765	31 October 1983	Transferred to the **Minister of Marine**
Allotment 23, 40 48 of portion of Section 488 and other land Hundred of Port Adelaide and in the areas named North Haven and Outer Harbour	Volume 5683 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Seagas, South East Australia Gas, and Minister for Environment and Conservation**
Allotment 156 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 26 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D64682	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 156 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**

Allotment 156 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 207 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 1 and 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 63481	Volume 5898 Folio 168	Volume 5683 Folio 7	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 26 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5913 Folio 346	Volume 5732 Folio 373 Volume 5898 Folio 166	18 March 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 July 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 20 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 6011 Folio 470	Volume 5660 Folio 239 Volume 5913 Folio 346	18 June 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Distribution Lessor Corporation**

Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 * no match Volume 5966 Folio 152	18 June 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Distribution Lessor Corporation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5861 Folio 410	Volume 5732 Folio 370	6 December 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 6012 Folio 889	Volume 5861 Folio 410 Volume 6011 Folio 465 Volume 6011 Folio 470	7 July 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 4306 Folio 333	Volume 1489 Folio 167 Volume 1733 Folio 55 Volume 2197 Folio 188 Volume 2213 Folio 185 Volume 2243 Folio 172 Volume 4248 Folio 590	18 November 1987	Transferred to the **Minister of Marine**
ALLOTMENT 102 DEPOSITED PLAN D82690 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6022 Folio 191	Volume 5732 Folio 371 Volume 6012 Folio 889	29 October 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 17 of Section 488 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 4224 Folio 637	Volume 4214 Folio 975	13 June 1984	Transferred to the **Minister of Marine**
ALLOTMENT 102 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6060 Folio 496	Volume 6022 Folio 191	29 June 2010	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**

ALLOTMENT 2 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 5179 Folio 217	Volume 4224 Folio 637	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Urban Renewal Authority**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 5301 Folio 158	Volume 4306 Folio 333	18 October 1995	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6080 Folio 669	Volume 6060 Folio 496	21 July 2011	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD.**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6115 Folio 923	Volume 5179 Folio 217	8 August 2013	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD.**
Allotment 2 Deposited Plan D20023 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 5732 Folio 371	Volume 5301 Folio 158	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **DISTRIBUTION LESSOR CORPORATION**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6022 Folio 189	Volume 5732 Folio 371	29 October 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD.**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6207 Folio 724	Volume 6080 Folio 669 Volume 6115 Folio 923	22 May 2020	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD.**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR	Volume 6244 Folio 38	Volume 6022 Folio 189 Volume 6207 Folio 724	24 September 2020	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Transmission Lessor Corporation Electranet Pty ltd**

HUNDRED OF PORT ADELAIDE				
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6282 Folio 179	Volume 6244 Folio 38	12 November 2021	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Water Corporation**
ALLOTMENT 110 DEPOSITED PLAN 118046 IN THE AREA NAMED OUTER HARBOR HUNDRED OF PORT ADELAIDE	Volume 6282 Folio 175	Volume 6282 Folio 179	23 February 2023	New title issued to **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**

Ownership History for CT 6261/182 (CT EE)

Property Description	Certificate of Title	Parent Title	Date	Details
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	**The South Australian Harbors Board**
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Allotment 4 Hundred Of Port Adelaide	Volume 1295 Volume 99	Original	5 September 1923	**George Burnett**
			1 April 1952	Transferred to **Farmers co-operative Executives and Trust Limited**
			1 April 1953	Transferred to **The South Australian Harbours Board**
Allotment 10 Hundred Of Port Adelaide	Volume 1379 Folio 60	Original	24 June 1925	**Fredrick Francis Burmeister**
			22 April 1947	Transferred to the **Public Trustee**
			14 July 1947	Transferred to **The Corporation of the City of Port Adelaide**
			6 March 1952	Transferred to **The South Australian Harbours Board**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 3137 Folio 4	*multiple parent CT's but no electronic copies	25 January 1963	Transferred to **South Australian Harbour Board of Adelaide**
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board

Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
			9 March 1939	The South Australian Harbors Board
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	**Minister Of Marine**
Sections 826-856 and portions of 817 and 824 and 825 of	Volume 3906 Folio 32	Volume 3137 Folio 4	13 February 1973	**Minister Of Marine**

Hundred of Port Adelaide				
Allotment 4 and 5 of section 824 Hundred of Port Adelaide laid out in Osbourne Extension	Volume 4054 Folio 625	Volume 3609 Folio 31 *no matching electronic title	4 December 1975	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 and Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Transferred to the **Minister of Marine**
			1 July 1927	Lease to **South Australian Gas Company**
			11 March 1940	Lease to **The Electricity Trust of South Australia**
			28 March 1949	Lease to **The Electricity Trust of South Australia**
			9 May 1957	Lease to **South Australia Gas Company**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	**Minister of Marine**
			24 June 1977	Transferred to **Coln Fanshaw and Wendy Dorothy Fanshaw**
			24 June 1977	Transferred to **Peter John Vickers and Rohana Elsie Vickers**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	**Minister of Marine**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Transferred to **Minister of Marine**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Transferred to Minister of Marine
			7 March 1985	Portion of section transferred to **Anthony Place and Valerie Place**
Allotment 3 and Allotment 5 of Section 839 and other land	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Transferred to the **Minister of Marine**
			1 July 1972	Leased to **South Australian Gas Company**

Hundred of Port Adelaide and area named outer harbor			11 March 19400	Leased to the **Electricity Trust of Soutth Australia**
			28 March 1949	Leased to the **Electricity Trust of Soutth Australia**
			9 May 1957	Leased to **CSR Limited**
			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary Limited**
			7 March 1985	Transferred to **Anthony Place and Valeria Place**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	**Minister of Marine**
Allotment 16 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4306 Folio 332	Volume 4117 Folio 963 Volume 4248 Folio 590 *Not within site	18 November 1987	**Australian National Railways Commission**
Allotment 19 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4306 Folio 337	Volume 4117 Folio 963	18 November 1987	Transferred to the **Minister of Marine**
Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4306 Folio 336	Volume 1295 Folio 99 Volume 1379 Folio 59 *no matching Volume 1379 Volume 60 Portion of Volume 4054 Folio 625 Volume 4248 Folio 590	18 November 1987	**Minister of Marine**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 4306 Folio 340	Volume 4248 Folio 590	18 November 1987	Transferred to **Minister of Marine**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	Unable to view due to electronic certificate

named Outer Harbor Deposited Plan 20023				Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 420	Volume 4306 Folio 339	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 101 and 102 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 422	Volume 4306 Folio 340 Volume 4306 Folio 336 Volume 4306 Folio 332	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Australian Naval Infrastructure Pty Ltd, and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Volume 274	Volume 5128 Folio 414 Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 41 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 501 of section 832 and other land in Hundred of	Volume 5163 Folio 286	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate

Port Adelaide in the area named Outer Harbor Deposited Plan D121984		Volume 5128 Folio 420		Proprietors/Lessees/Custodians at time of issue **Australian Naval Infrastructure Pty Ltd.**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275 Volume 5163 Folio 279 Volume 5163 Folio 280	4 June 1999	Uble to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development, Minister for Environment and Conservation and Transmission Lessor Corporation Electranet Pty Ltd.**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5163 Folio 279	Volume 5163 Folio 279	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 240	Volume 5163 Folio 274	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
ALLOTMENT 3 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**

HUNDRED OF PORT ADELAIDE				
ALLOTMENT 3 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
ALLOTMENT 3 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 5913 Folio 345	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 167	18 March 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 5920 Folio 510 *crown land	Volume 5913 Folio 345	19 July 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6011 Folio 78	Volume 5920 Folio 510	6 June 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6012 Folio 864	Volume 6011 Folio 465	7 July 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **City of Port Adelaide Enfield**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT	Volume 6011 Folio 468	Volume 5660 Folio 239 Volume 6011 Folio 78	18 June 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Urban Renewal Authority**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT	Volume 6220 Folio 654	Volume 5128 Folio 422 Volume 6025 Folio 28	6 March 2019	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Australian Naval Infrastructure Pty Ltd.**
ALLOTMENT 3000 DEPOSITED PLAN 124718	Volume 6231 Folio 1	Volume 6011 Folio 468	15 November 2019	Unable to view due to electronic certificate

IN THE AREA NAMED OSBORNE HUNDRED OF PORT				Proprietors/Lessees/Custodians at time of issue **Urban Renewal Authority**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT	Volume 6231 Folio 635	Volume 6231 Folio 1	27 November 2019	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT	Volume 6230 Folio 999	Volume 5163 Folio 286 Volume 6220 Folio 654	15 November 2019	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6231 Folio 636	Volume 6230 Folio 999 Volume 6231 Folio 635	27 November 2019	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6244 Folio 449	Volume 6231 Folio 636 Volume 6238 Folio 27	6 October 2020	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6262 Folio 173	Volume 6088 Folio 197 Volume 6244 Folio 449	12 November 2021	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 196	Volume 6012 Folio 864	12 November 2021	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6262 Folio 174	Volume 6088 Folio 196 Volume 6262 Folio 173	12 November 2021	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**
ALLOTMENT 3000 DEPOSITED PLAN 124718	Volume 6262 Folio 182	Volume 6262 Folio 174	12 November 2021	New title issued to **AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD**

IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE				

Ownership History for CT 6231/5 (CT GG)

Property Description	Certificate of Title	Parent Title	Date	Details
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	**The South Australian Harbors Board**
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Block number 10 in the Hundred of Port Adelaide county of Adelaide	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 3137 Folio 4	*multiple parent CT's but no electronic copies	25 January 1963	Transferred to **South Australian Harbour Board of Adelaide**
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company

			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
			9 March 1939	The South Australian Harbors Board
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	**Minister Of Marine**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 3906 Folio 32	Volume 3137 Folio 4	13 February 1973	**Minister Of Marine**
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 and Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Transferred to the **Minister of Marine**
			1 July 1927	Lease to **South Australian Gas Company**
			11 March 1940	Lease to **The Electricity Trust of South Australia**
			28 March 1949	Lease to **The Electricity Trust of South Australia**
			9 May 1957	Lease to **South Australia Gas Company**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	**Minister of Marine**
			24 June 1977	Transferred to **Coln Fanshaw and Wendy Dorothy Fanshaw**
			24 June 1977	Transferred to **Peter John Vickers and Rohana Elsie Vickers**
Sections 826-856 and portions of 817 and 824 and 825 of Hundred of Port Adelaide	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	**Minister of Marine**
			9 January 1978	Transferred to **Pearce Transport Pty Ltd.**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Transferred to **Minister of Marine**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Transferred to Minister of Marine
			7 March 1985	Portion of section transferred to **Anthony Place and Valerie Place**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	**Minister of Marine**
Allotment 21 of Section 839 and other land Hundred of Port Adelaide Outer Harbour	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	**Minister of Marine**
Allotment 3 and Allotment 5 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Transferred to the **Minister of Marine**
			1 July 1972	Leased to **South Australian Gas Company**
			11 March 19400	Leased to the **Electricity Trust of Soutth Australia**
			28 March 1949	Leased to the **Electricity Trust of Soutth Australia**
			9 May 1957	Leased to **CSR Limited**

			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 May 1980	Leased to the **Electricity Trust of Soutth Australia**
			15 September 1982	Transferred to **Truran Earthmovers Proprietary Limited**
			7 March 1985	Transferred to **Anthony Place and Valeria Place**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 4078 Folio 531	Original	23 November 1976	**Minister of Marine**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 7 of the subdivision of portion of Section 825 laid out as Osbourne East	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	**Minister of Marine**
Allotment 19 of Section 839 and other land Hundred of Port Adelaide and area named outer harbor	Volume 4306 Folio 337	Volume 4117 Folio 963	18 November 1987	Transferred to the **Minister of Marine**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 4306 Folio 340	Volume 4248 Folio 590	18 November 1987	Transferred to **Minister of Marine**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5128 Folio 420	Volume 4306 Folio 339	24 June 1993	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 100 of Section 832 and other land Hundred of Port	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	Unable to view due to electronic certificate

Adelaide in the area named Outer Harbor Deposited Plan D55106				Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, MFP Development Corporation and City of Port Adelaide Enfield**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5179 Folio 222	Volume 1276 Folio 200	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5179 Folio 221	Volume 1276 Folio 200	6 April 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **MFP Development Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5216 Folio 528	Volume 5179 Folio 222	22 September 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 6 and 24 and other land Hundred of Port Adelaide in the area named outer Harbour	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation, South Australian Ports Corporation, and National Power South Australia Investments**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Volume 274	Volume 5128 Folio 414 Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 41 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate

Deposited Plan D28143				Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 40 41 48 52 23 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D28143	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5651 Folio 55	Volume 5421 Folio 435	7 May 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	7 May 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer and ETSA Transmission Corporation**
Allotment 30 Deposited Plan D52266 Hundred of Port Adelaide in the area named Outer Harbor	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer and ETSA Transmission Corporation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 100 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D55106	Volume 5718 Folio 560	Volume 5651 Folio 55	10 December 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	4 June 1999	Uble to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development, Minister for**

named Outer Harbor Deposited Plan 20023		Volume 5163 Folio 279 Volume 5163 Folio 280		**Environment and Conservation and Transmission Lessor Corporation Electranet Pty Ltd.**
Allotment 30 Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 52266	Volume 5660 Folio 235	Volume 5651 Folio 62	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5660 Folio 240	Volume 5163 Folio 274	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 23 of Land Hundred of Port Adelaide in the area named Outer Harbour Deposited Plan D52266	Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 100 of Port Adelaide and in the areas named North Haven and Outer Harbour	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **South Australian Ports Corporation**
Allotment 23, 40 48 of portion of Section 488 and other land Hundred of Port Adelaide and in the areas named North Haven and Outer Harbour	Volume 5683 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Seagas, South East Australia Gas, and Minister for Environment and Conservation**
Allotment 156 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 26 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan D64682	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 156 of Section 832 and other	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Unable to view due to electronic certificate

land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309				Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 156 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Treasurer**
Allotment 207 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 1 and 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 63481	Volume 5898 Folio 168	Volume 5683 Folio 7	14 July 2003	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conversation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 27 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 July 2004	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Environment and Conservation**
Allotment 20 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 76309	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Minister for Economic Development**
Allotment 2 of Section 832 and other land Hundred of Port Adelaide in the area named Outer Harbor Deposited Plan 20023	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 * no match Volume 5966 Folio 152	18 June 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Distribution Lessor Corporation**

ALLOTMENT 508 DEPOSITED PLAN 121984 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 5163 Folio 281	Volume 5128 Folio 414 Volume 5128 Folio 420	10 January 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **ETSA Corporation, South Australian Housing Trust**
ALLOTMENT 508 DEPOSITED PLAN 121984 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 5220 Folio 96	Volume 5163 Folio 281	12 October 1994	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Subtrade of SB Pty Ltd.**
ALLOTMENT 508 DEPOSITED PLAN 121984 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6012 Folio 881	Volume 5220 Folio 96 Volume 6011 Folio 465	7 July 2008	Unable to view due to electronic certificate Proprietors/Lessees/Custodians at time of issue **Subtrade of SB Pty Ltd.**
ALLOTMENT 508 DEPOSITED PLAN 121984 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6231 Folio 5	Volume 6012 Folio 881	17 May 2022	**AUSTRALIAN NAVAL INFRASTRUCTURE PTY. LTD.**

Ownership History for CT 6088/170

CT 6088/170				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 101 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 170	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/174

CT 6088/174				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 106 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 174	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/175

CT 6088/175				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
Allotment 502 Deposited Plan 87145 In The Area Named Osborne Hundred Of Port Adelaide	Volume 6088 Folio 191	Volume 6067 Folio 114	31 May 2022	Urban Renewal Authority
ALLOTMENT 106 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 175	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/177

CT 6088/177				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 112 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 177	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/183

CT 6088/183				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 118 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 183	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

.Ownership History for CT 6088/184

CT 6088/184				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 119 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 184	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/185

CT 6088/185				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 119 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 185	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/186

CT 6088/186				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 121 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 186	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/188

CT 6088/188				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 129 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 188	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/189

CT 6088/189				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 129 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 189	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/190

CT 6088/190				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 129 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 189	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/191

CT 6088/191				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
Allotment 502 Deposited Plan 87145 In The Area Named Osborne Hundred Of Port Adelaide	Volume 6088 Folio 191	Volume 6067 Folio 114	31 May 2022	Urban Renewal Authority

Ownership History for CT 6191/176

CT 6191/176				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
Allotment 502 Deposited Plan 87145 In The Area Named Osborne Hundred Of Port Adelaide	Volume 6088 Folio 191	Volume 6067 Folio 114	31 May 2022	Urban Renewal Authority
ALLOTMENT 502 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6088 Folio 191	Volume 6067 Folio 114	31 May 2022	Urban Renewal Authority
ALLOTMENT 1281 ALLOTMENT 2003	Volume 6088 Folio 192	Volume 6067 Folio 114	16 December 2011	Urban Renewal Authority

ALLOTMENT 1281	Volume 6088 Folio 187	Volume 6067 Folio 114	16 December 2011	Urban Renewal Authority
ALLOTMENT 1281 DEPOSITED PLAN 113895 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 176	Volume 6088 Folio 187 Volume 6088 Folio 192	18 May 2017	Urban Renewal Authority

Ownership History for CT 6191/178

CT 6191/178				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1282 D115170 ALLOTMENT 1031	Volume 6088 Folio 173	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1031 D115170 ALLOTMENT 1101	Volume 6088 Folio 172	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
ALLOTMENT 1031 DEPOSITED PLAN 115170 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 178	Volume 6088 Folio 172 Volume 6088 Folio 173	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6191/179

CT 6191/179				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
D115170 ALLOTMENT 1281 D115170 ALLOTMENT 2003	Volume 6088 Folio 192	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1282 D115170 ALLOTMENT 1031	Volume 6088 Folio 173	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1031 D115170 ALLOTMENT 1101	Volume 6088 Folio 172	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101	Volume 6191 Folio 177	Volume 6088 Folio 192	18 May 2017	URBAN RENEWAL AUTHORITY CITY OF PORT ADELAIDE ENFIELD

D115170 ALLOTMENT 1111 D115170 ALLOTMENT 1221 D115170 ALLOTMENT 1282 D115170 ALLOTMENT (Road) 624				
ALLOTMENT 1101 DEPOSITED PLAN 115170 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 179	Volume 6088 Folio 172 Volume 6088 Folio 173 Volume 6191 Folio 177	18 May 2017	URBAN RENEWAL AUTHORITY

Ownership History for CT 6191/180

CT 6191/180				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
D115170 ALLOTMENT 1281 D115170 ALLOTMENT 2003	Volume 6088 Folio 192	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
ALLOTMENT 1111	Volume 6088 Folio 176	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1111 D115170 ALLOTMENT 1221 D115170 ALLOTMENT 1282	Volume 6191 Folio 177	Volume 6088 Folio 192	18 May 2017	URBAN RENEWAL AUTHORITY CITY OF PORT ADELAIDE ENFIELD

D115170 ALLOTMENT (Road) 624				
ALLOTMENT 1111 DEPOSITED PLAN 115170 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 180	Volume 6088 Folio 176 Volume 6191 Folio 177	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6191/181

CT 6191/181				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
D115170 ALLOTMENT 1281 D115170 ALLOTMENT 2003	Volume 6088 Folio 192	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1111 D115170 ALLOTMENT 1221 D115170 ALLOTMENT 1282 D115170 ALLOTMENT (Road) 624	Volume 6191 Folio 177	Volume 6088 Folio 192	18 May 2017	URBAN RENEWAL AUTHORITY CITY OF PORT ADELAIDE ENFIELD

ALLOTMENT 1221 DEPOSITED PLAN 115170 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 181	Volume 6191 Folio 177	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6191/182

CT 6191/182				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
D115170 ALLOTMENT 1281 D115170 ALLOTMENT 2003	Volume 6088 Folio 192	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1282 D115170 ALLOTMENT 1031	Volume 6088 Folio 173	Volume 6067 Folio 114	16 December 2011	URBAN RENEWAL AUTHORITY
D115170 ALLOTMENT 1101 D115170 ALLOTMENT 1111 D115170 ALLOTMENT 1221	Volume 6191 Folio 177	Volume 6088 Folio 192	18 May 2017	URBAN RENEWAL AUTHORITY CITY OF PORT ADELAIDE ENFIELD

D115170 ALLOTMENT 1282 D115170 ALLOTMENT (Road) 624				
ALLOTMENT 1282 DEPOSITED PLAN 115170 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6191 Folio 182	Volume 6191 Folio 177 Volume 6088 Folio 173	31 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6236/388

CT 6236/388				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
ALLOTMENT 117	Volume 6088 Folio 182	Volume 6067 Folio 114	31 May 2022	URBAN RENEWAL AUTHORITY
ALLOTMENT 117 DEPOSITED PLAN 87145 IN THE AREA NAMED OSBORNE HUNDRED OF PORT ADELAIDE	Volume 6236 Folio 388	Volume 6088 Folio 182	25 May 2022	URBAN RENEWAL AUTHORITY

Ownership History for CT 6088/171

CT 6088/171				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Blocks 3,4, and 5 on Block 1 Hundred Of Port Adelaide in sections 338 and 339	Volume 1159 Folio 191	Original	22 May 1920	The South Australian Harbors Board
			1 January 1919	Leased to the Adelaide Electric Supply Company Limited
			1 January 1954	Leased to the South Australian Gas Company
			7 July 1925	Leased to the vacuum Oil Company Proprietary Limited
			15 June 1928	Leased to the vacuum Oil Company Proprietary Limited
Blocks 3,4, and 5on Block 1 Hundred Of Port Adelaide	Volume 1575 Folio 195	Volume 1159 Folio 191	27 June 1930	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1309 Folio 165	Original	22 November 1923	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1929	Leased to the Adelaide Electric Supply Company Limited
			12 July 1929	Leased to the Texas Company (Australiasia) Limited
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 1612 Folio 41	Volume 1575 Folio 195	24 February 1933	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			15 June 1926	Leased to the vacuum Oil Company Proprietary Limited
			21 October 1927	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company

			12 June 1929	Leased to the Texas Company (Australiasia) Limited
			3 September 1929	Leased to the South Australian Gas Company
			4 June 1930	Leased to The Shell Company of Australia Limited
			4 June 1930	Leased to The Shell Company of Australia Limited
Blocks 33 And 34 Of Block 1 hundred Of Port Adelaide	Volume 1722 Folio 200	Volume 1612 Folio 41 Volume 1309 Folio 165	9 March 1939	The South Australian Harbors Board
			25 March 1924	Leased to the South Australian Gas Company
			21 October 1926	Leased to the Adelaide Electric Supply Company Limited
			7 December 1927	Leased to the South Australian Gas Company
			3 September 1929	Leased to the South Australian Gas Company
			11 March 1940	Leased to the Adelaide Electric Supply Company Limited
			28 March 1949	Leased to the Adelaide Electric Supply Company Limited
			17 February 1950	Leased to the South Australian Gas Company
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3896 Folio 122	Volume 1722 Folio 200	20 December 1972	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 3906 Folio 33	Volume 3896 Folio 122	13 February 1973	Minister Of Marine
Blocks 33 And 34 Of Block 1 Hundred Of Port Adelaide	Volume 4054 Folio 627	Volume 3906 Folio 33	4 December 1975	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			24 June 1977	Transfer 4059663 To Colin Fanshaw And Wendy Dorothy Fanshaw
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia

			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – The Corporation Of The City Of Port Adelaide
Section 839	Volume 1676 Folio 3	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 844	Volume 1676 Folio 2	*Original	20 February 1937	**Jabez Tilly (retired farmer)**
			14 September 1951	Transferred to **the South Australian Harbors Board**
Section 832	Volume 1635	*Original	29 November 1934	**Adelaide Development Co. Pty. Limited**

	Folio 115		13 November 1952	Transferred to **the South Australian Harbors Board**
Sections 826, 831 and 835	Volume 1587 Folio 187	*Original	6 March 1931	**Elders Trustee and Executor Company Limited**
			15 August 1951	Transferred to **the South Australian Harbors Board**
Section 843 and 850	Volume 1383 Folio 133	*Original	29 July 1925	**George Howell**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 824	Volume 1379 Folio 59	*Original	24 June 1925	**Sydney Retallick**
			27 February 1952	Transferred to **The South Australian Harbors Board**
Section 825	Volume 1379 Folio 58	*Original	24 June 1925	**Cecil Mark Retallick (Chemist)**
			25 February 1952	Transferred to **The South Australian Harbors Board**
Section 852	Volume 1379 Folio 57	*Original	16 April 1925	**Albert Victor Wardleworth and Theodore William Vetter and Frederick Julian Paul Hirsch**
			4 February 1952	Transferred to **The South Australian Harbors Board**
Section 855	Volume 1369 Folio 151	*Original	16 April 1925	**Ambrose Reid Tuckett**
			25 January 1928	**A.L. Coyley and Co Limited**
			25 January 1928	**Transferred to Ellen Heurietta Frevaill**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 794	Volume 954 Folio 96	*Original	9 May 1913	**Friedericke Elkan**
			2 July 1951	Transferred to **The South Australian Harbors Board**
Section 840	Volume 855 Folio 52	*Original	17 December 1910	**Arthur Oscar Reynolds John**
			26 September 1951	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 97	*Original	25 August 1903	**Alexander Douglas Tyler**
			27 June 1952	Transferred to **The South Australian Harbors Board**
Section 849	Volume 708 Folio 96	*Original	25 August 1903	**Bertha Webster Atkinson, Eliza Susan Chewings, George Honey Harries, Alfred Richard Nicholls and Alfred Harris Owst-Atkinson and Lillian Chewings**
			9 March 1955	Transferred to **The South Australian Harbors Board**
Section 854	Volume 478 Folio 40	*Original	29 May 1885	**Thomas Coombe**
			11 May 1950	Transferred to **The South Australian Harbors Board**

Section 854	Volume 478 Folio 39	*Original	29 May 1885	**George Thomas Lane**
			11 May 1950	Transferred to **The South Australian Harbors Board**
Section 847	Volume 412 Folio 38	*Original	13 January 1883	**Joseph Jackman**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 851 and 853	Volume 378 Folio 191	*Original	21 December 1881	**William Lau'es Ware**
			3 October 1952	Transferred to **The South Australian Harbors Board**
Section 799	Volume 374 Folio 166	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 795	Volume 374 Folio 165	*Original	11 November 1881	**George Bailey**
			2 October 1926	Transferred to **the Rural Estate and Development Company Limited**
			4 February 1952	Transferred to **the South Australian Harbors Board**
Section 856	Volume 124 Folio 22	*Original	22 July 1874	Frederick James Sanderson
			9 June 1936	Transferred to **Francis Villiers Sanderson**
			29 June 1939	Transferred to **Jannie Augusta Sanderson**
			5 May 1947	Death of **Jannie Augusta Sanderson**
			5 May 1947	Transferred to **Kenneth Francis Villiers Sanderson and Valerie Villiers Davenport**
			17 April 1952	Transferred to **The South Australian Harbors Board**
Section 834	Volume 117 Folio 124	*Original	23 July 1988	William George Morris
			30 July 1868	Mortgage transfer to Charles Edward Fidemanm
			16 November 1880	Transferred to **Ashton Jeisk**
			29 April 1871	Transferred to **William Louis Gordon**
			13 June 1876	Transferred to **John Gosier**
			14 November 1881	Transferred to **John Henry**
			17 January 1923	Transferred to **learl Bernham Lolling**
			30 July 1923	Transferred to **Louis Stephen McNeil**
			30 July 1923	Transferred to **William Seiger**
			30 July 1923	Transferred to **Amberose Reid Tuckett**

			4 December 1924	Mortgage transferred to **The Income Jase Compilen Company Limited**
			2 June 1952	Transferred to **The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3137 Folio 4	Volume 117 Folio 124 Volume 124 Folio 22	25 January 1963	**The South Australian Harbors Board**
			3 March 1972	Transferred to **Allen Wilson Pty Ltd.**
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 3906 Folio 32	Volume 3137 Folio 4	13 January 1973	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	Minister Of Marine
Section Number 2113 In The Hundred Of Port Adelaide County Of Adelaide	Volume 4078 Folio 531	Original	23 November 1976	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856 And A Portion Of Sections 817,824 And 825.	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 21 Of Section 839	Volume 4306 Folio 339	Volume 4248 Folio 590	18 November 1987	Minister Of The Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation

D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40				
Block number 10	Volume 1276 Folio 200	Original	18 April 1923	**The South Australian Harbors Board**
			6 August 1987	Portion of the within land is vested in **Australian National Railways Commission**
			9 November 1993	Portion of the within land (lots 5) is vested in **MFP Development Corporation**
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	MFP Development Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister for Environment and Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister for Environment and Conservation ETSA Transmission Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister for Environment and Conservation
D28143 Allotment 40 D28143 Allotment 44 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 52 D28143 Allotment 47 D28143 Allotment (Road) 42	Volume 5218 Folio 420	Volume 4306 Folio 339	24 June 1993	MFP Development Corporation South Australian Housing Trust City Of Port Adelaide Enfield
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	ETSA Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation

D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24 June 1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200 Volume 4078 Folio 531	06 April 1994	South Australian Ports Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	MFP Development Corporation
D28523 Allotment 7	Volume 5179 Folio 221			
D28523 Allotment 8	Volume 5179 Folio 222			
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	ETSA Transmission Corporation Minister for Environment and Conservation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	ETSA Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5421 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation ETSA Utilities Pty. Ltd.

D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. ETSA Transmission Corporation Treasurer
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	4 June 1999	ETSA Utilities Pty. Ltd. Minister for Environment and Conservation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108 D55106 Allotment 109	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23 D28143 Allotment 48	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	8 February 2000	Minister for Environment and Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister for Environment and Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275	04 June 1999	Minister For Economic Development Minister for Environment and Conservation Minister For Economic Development Electranet Pty. Ltd.

		Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 54		Transmission Lessor Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Southeast Australia Gas Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister for Environment and Conservation
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister for Environment and Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

				Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister for Environment and Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister for Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister for Environment and Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister for Environment and Conservation
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister for Environment and Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development

D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development
D84951 Allotment 2001 D76925 Allotment 9	Volume 6012 Folio 883 Volume 6012 Folio 870	Volume 6011 Folio 465	7 July 2008	Minister For Economic Development
D84951 Allotment 99 D84951 Allotment 2001	Volume 6064 Folio 185	Volume 6012 Folio 870	20 November 2008	Minister For Economic Development
D87145 Allotment 101-121 D87145 Allotment 128-131 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Road) 620-623 D87145 Allotment (Reserve) 501 D87145 Allotment (Reserve) 777 D87145 Allotment (Reserve) 777	Volume 6067 Folio 114	Volume 6012 Folio 883 Volume 6064 Folio 185	1 November 2010	Minister For Economic Development City Of Port Adelaide Enfield Distribution Lessor Corporation South Australian Water Corporation
Allotment 502 Deposited Plan 87145 In The Area Named Osborne Hundred Of Port Adelaide	Volume 6088 Folio 171	Volume 6067 Folio 114	31 May 2022	Urban Renewal Authority

Ownership History for CT 6060/497

CT 6060/497				
Property Description	**Certificate Of Title**	**Parent Title**	**Date**	**Details**
Sections 825	Volume 239 Folio 64	*Original	17 December 1876	**George Meauday**
			20 September 1877	Transferred To **Willian Tonsey Cooper**
			10 August 1880	Transferred To **James Hales And Fredrick Hales**
			18 August 1880	Mortgage Transferred To **George Le Mesurien Gnetton**
			12 November 1880	Transferred To **Herbert Goldingham**
			14 September 1881	Transferred To **Peter Wood**
			10 October 1881	Transferred To **John Bosworth**
			30 August 1895	Transferred To **Ellen Maria Bosworth**
			27 August 1895	Mortgage Transferred To **George Wills, George Faron Wills, Henry Wills, Richard John Henry Wills, William Edward John Brockhoff, William Herbert Phillips, And George Arthur Fury.**
			4 September 1940	Transferred To **William George Fuller And Herbert Henry Artiwell**
			21 January 1953	Transferred To **The South Australian Harbors Board**
Allotments 6 Of Sections 825	Volume 1213 Folio 169	Volume 239 Folio 64	8 October 1961	**William George Fuller (Architect) And Herbert Henry Attiwell (Accountant)**
			13 October 1929	Transferred To **Herbert Frank Schalts**
			15 October 1929	Transferred To **Joseph Grant Dallaity**
			29 July 1930	Transferred To **Maria Sophie Pauline Aleiffer**
			18 January 1934	Transferred To **Thelma Manwaning Beech**
			10 July 1934	Transferred To **Walter Maxwell Bergees Meyer Ad Vena Helen Meyer**
			1 August 1939	Transferred To **Herbert Walter Bochun**
			25 October 1940	Death Of **Herbert Henry Attiwell**
			19 December 1949	Transferred To **William George Fuller**
			3 January 1950	Transferred To **Samual Leonard Jenkins**
			5 January 1950	Transferred To **Minnie Fuller**
			19 April 1950	Transferred To **Johanne Meldman**

			21 January 1952	Transferred To The South Australian Harbors Board
			27 June 1952	Transferred To The South Australian Harbors Board
388 acres in block hundred	Volume 1276 Folio 200	Original	18 April 1923	The South Australian Harbors Board
	Volume 1489 Folio 167	Volume 1213 Folio 169	14 November 1927	**Herbert Frank Schultz**
			11 June 1952	Transferred To **The South Australia Harbors Board**
Allotment 6 Of Portion Of Section 825	Volume 1733 Folio 55	Volume 1213 Folio 169	10 August 1939	**Herbert Walter Boehm**
			25 February 1952	Transferred To **The South Australia Harbors Board**
Allotment 1 And 2 Of Portion Of Section 825	Volume 2197 Folio 188	Volume 1213 Folio 169	10 April 1952	**The South Australian Harbors Board**
Allotments 3 And 4 Of Portion Section 825	Volume 2213 Folio 185	Volume 1213 Folio 169	8 July 1952	**The South Australian Harbors Board**
Allotment 7 Of Sections 825	Volume 2243 Folio 172	Volume 1213 Folio 169	2 January 1953	**The South Australian Harbors Board**
Sections 826, 831-834, 839-844, 847, 849, 850-856	Volume 3906 Folio 32	Volume 3137 Folio 4	13 February 1973	**Minister of Marine**
			16 September 1975	Transferred to **Allen Wilson Pty Limited**
Sections 826, 831-834, 839-844, 847, 849, 850-856	Volume 4054 Folio 626	Volume 3906 Folio 32	4 December 1975	**Minister of Marine**
			24 June 1977	Transferred to **Colin Fanshaw and Wendy Dorothy Fanshaw**
			24 June 1977	Transferred to **Peter John Vickers and Rhonda Elsie Vickers**
Sections 826, 831-834, 839-844, 847, 849, 850-856	Volume 4100 Folio 630	Volume 4054 Folio 626	6 December 1977	**Minister of Marine**
			9 January 1978	**Transferred to Pearce Transport Pty Ltd**
Sections 826, 831-834, 839-844, 847, 849, 850-856	Volume 4117 Folio 964	Volume 4100 Folio 630	30 May 1978	Minister Of Marine
Allotment 3 And 4 Of Block 33 And Other Land Hundred Of Port Adelaide	Volume 4100 Folio 629	Volume 4054 Folio 627	6 December 1977	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company
			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
Allotment 3 Of Block 33 And Other Land	Volume 4117 Folio 963	Volume 4100 Folio 629	30 May 1978	Minister Of Marine
			1 July 1927	Lease 1078226 Portion Of Site To South Australian Gas Company

Hundred Of Port Adelaide			23 August 1939	Lease 1313706 Portion Of Site To Electricity Trust Of South Australia
			1 September 1946	Lease 1568180 Portion Of Site To The Electricity Trust Of South Australia
			1 January 1955	Lease 1998680 Portion Of Site To South Australian Gas Company
			15 May 1980	Lease 1313706 Surrendered
			1 February 1976	Lease 4554988 To Csr Limited
			19 February 1980	Lease 4554988 Portion Of Site To The Electricity Trust Of South Australia
			15 September 1982	Transfer 4942869 To Truran Earthmovers Proprietary Limited
			7 March 1985	Transfer 5396620 To Anthony Place And Valeria Place
			6 August 1987	Portion Of The Within Land Is Vested In Australian National Railways Commission
			2 October 1987	Minister Of Marine
Allotment 23 Portion Of Section 839 And Other Land Hundred Of Port Adelaide	Volume 4306 Folio 340	Volume 4117 Folio 963	18 November 1987	**Minister Of Marine**
			1 July 1927	Lease 1078226 Portion Of Site **To South Australian Gas Company**
			23 August 1939	Lease 1313706 Portion Of Site To **Electricity Trust Of South Australia**
			1 September 1946	Lease 1568180 Portion Of Site To **The Electricity Trust Of South Australia**
			1 January 1955	Lease 1998680 Portion Of Site To **South Australian Gas Company**
			1 February 1976	Lease 4554988 To **Csr Limited**
			19 February 1980	Lease 4554988 Portion Of Site To **The Electricity Trust Of South Australia**
			23 June 1993	Balance Of The Within Land As Is Comprised In Allotments 36 And 39 – **The Corporation Of The City Of Port Adelaide**
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4202 Folio 227	Volume 4117 Folio 964	19 January 1983	Minister Of Marine
Sections 826, 831-834, 839-844, 847, 849-856	Volume 4248 Folio 590	Volume 4202 Folio 227	5 July 1985	Minister Of Marine
Allotment 2 Of Section 832	Volume 4306 Folio 333	Volume 1489 Folio 167 Volume 1733 Folio 55 Volume 2197 Folio 188 Volume 2213 Folio 185 Volume 2243 Folio 172	18 November 1987	Minister Of Marine

		Volume 4248 Folio 590		
Allotment 19	Volume 4306 Folio 337	Volume 4117 Folio 963	7 May 1993	Minister Of Marine
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D28143 Allotment (Road) 42	Volume 5128 Folio 419	Volume 4306 Folio 337	24 June 1993	Etsa Transmission Corporation City Of Port Adelaide Enfield Mfp Development Corporation
D28143 Allotment 44 D28143 Allotment 40 D28143 Allotment 45 D28143 Allotment 46 D28143 Allotment 47 D28143 Allotment 49-51	Volume 5128 Folio 414	Volume 4306 Folio 340	24/06/1993	South Australian Housing Trust Mfp Development Corporation Minister Of Transport Development
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 48	Volume 5163 Folio 279	Volume 5128 Folio 419	10 January 1994	Etsa Transmission Corporation Minister For Environment And Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5163 Folio 274	Volume 5128 Folio 414 Volume 5218 Folio 419 Volume 5218 Folio 420	10 January 1994	Etsa Transmission Corporation Minister For Environment And Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 40	Volume 5163 Folio 275	Volume 5128 Folio 419	10 January 1994	Etsa Transmission Corporation Minister For Environment And Conservation
D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23 D28143 Allotment 52	Volume 5163 Folio 280	Volume 5128 Folio 419 Volume 5128 Folio 420	10 January 1994	Etsa Transmission Corporation Minister For Environment And Conservation
D28523 Allotment 7	Volume 5179 Folio 221	Volume 1276 Folio 200	06 April 1994	Mfp Development Corporation
D28523 Allotment 4	Volume 5179 Folio 219	Volume 1276 Folio 200	06 April 1994	South Australian Ports Corporation

		Volume 4078 Folio 531		
D28523 Allotment 8	Volume 5217 Folio 222	Volume 1276 Folio 200	6 April 1994	Mfp Development Corporation
D28523 Allotment 6	Volume 5179 Folio 220	Volume 1276 Folio 200	06 April 1994	Mfp Development Corporation
D28523 Allotment 6 D52266 Piece 24 D28523 Allotment 6	Volume 5216 Folio 526	Volume 5179 Folio 220	22 September 1994	Etsa Utilities Pty. Ltd. South Australian Ports Corporation
D52266 Allotment 23 D52266 Allotment 27 D52266 Allotment 28 D52266 Allotment 29 D52266 Allotment 30	Volume 5216 Folio 528	Volume 5217 Folio 222	22 September 1994	Minister For Environment And Conservation South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D52266 Allotment 25-30	Volume 5216 Folio 527	Volume 5179 Folio 221	22 September 1994	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5301 Folio 158	Volume 4306 Folio 333	18 October 1995	Etsa Utilities Pty. Ltd. Minister For Environment And Conservation
D52266 Piece 22 D52266 Piece 24 D52266 Allotment 25-30	Volume 5451 Folio 435	Volume 5179 Folio 219	26 May 1997	South Australian Ports Corporation National Power South Australia Investments Ltd. Treasurer
D28523 Allotment 6 D52266 Piece 24 D52266 Piece 22	Volume 5615 Folio 55	Volume 5451 Folio 435	07 May 1999	South Australian Ports Corporation Etsa Utilities Pty. Ltd.
D52266 Allotment 30	Volume 5651 Folio 62	Volume 5216 Folio 527 Volume 5216 Folio 528 Volume 5421 Folio 435	07 May 1999	Epic Energy South Australia Pty. Ltd. Etsa Transmission Corporation Treasurer
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 41 D28143 Allotment 48 D28143 Allotment 52 D52266 Allotment 23	Volume 5651 Folio 56	Volume 5216 Folio 528	7 May 1999	Epic Energy South Australia Pty. Ltd. Minister For Environment And Conservation Etsa Transmission Corporation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5660 Folio 242	Volume 5163 Folio 279	04 June 1999	Txu Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd.

D28143 Allotment 48				Anp Sea Gas Spv3 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Minister For Environment And Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5660 Folio 241	Volume 5163 Folio 275	4 June 1999	Minister For Environment And Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 420	Volume 5163 Folio 274	04 June 1999	Etsa Utilities Pty. Ltd. Minister For Environment And Conservation
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 243	Volume 5163 Folio 280	04 June 1999	Etsa Utilities Pty. Ltd. Minister For Environment And Conservation
D76309 Allotment 20 D76309 Allotment 21-22 D76309 Allotment 23 D76309 Allotment 26	Volume 5660 Folio 239	Volume 5163 Folio 274 Volume 5163 Folio 275 Volume 5163 Folio 279 Volume 5163 Folio 280 Volume 5651 Folio 56	04 June 1999	Minister For Economic Development Minister For Environment And Conservation Minister For Economic Development Electranet Pty. Ltd. Transmission Lessor Corporation
D52266 Allotment 23	Volume 5660 Folio 237 Volume 5660 Folio 238	Volume 5651 Folio 56	4 June 1999	Minister For Environment And Conservation
D52266 Allotment 30	Volume 5660 Folio 235	Volume 5651 Folio 62	04 June 1999	Treasurer
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5660 Folio 240	Volume 5163 Folio 274	04 June 1999	Etsa Utilities Pty. Ltd. Minister For Environment And Conservation
D55106 Allotment 100 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 559	Volume 5216 Folio 526	10 December 1999	South Australian Ports Corporation
D55106 Allotment 100-103 D55106 Allotment 106 D55106 Piece 107 D55106 Piece 108	Volume 5718 Folio 560	Volume 5615 Folio 55	10 December 1999	South Australian Ports Corporation

D55106 Allotment 109				
D20023 Allotment 2 D28143 Allotment 40 D28143 Allotment 52	Volume 5732 Folio 370	Volume 5301 Folio 158 Volume 5660 Folio 420 Volume 5660 Folio 243	08 February 2000	Distribution Lessor Corporation
D20023 Allotment 2	Volume 5732 Folio 371	Volume 5301 Folio 158	08 February 2000	Distribution Lessor Corporation Spark Infrastructure Sa (No. 3) Pty. Ltd. Spark Infrastructure Sa (No. 1) Pty. Ltd. Hei Utilities Development Ltd. Spark Infrastructure Sa (No. 2) Pty. Ltd. Cki Utilities Development Ltd.
D63481 Allotment 2 D63481 Allotment 3 D63481 Allotment 4	Volume 5732 Folio 373	Volume 5660 Folio 243	08 February 2000	Minister For Environment And Conservation
D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5732 Folio 372	Volume 5660 Folio 240	8 February 2000	Txu Sea Gas Spv1 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. South East Australia Gas Pty. Ltd. Minister For Environment And Conservation
D57695 Allotment 151 D57695 Allotment 152-54 D55106 Allotment 109	Volume 5811 Folio 469	Volume 5718 Folio 559 Volume 5718 Folio 560	29 September 2000	Minister For Government Enterprises South Australian Ports Corporation
D64682 Allotment 205 D64682 Allotment 207 D64682 Allotment 212-13 D65385 Allotment 251-254	Volume 5858 Folio 212	Volume 5811 Folio 469	31 October 2001	Land Management Corporation Minister For Environment And Conservation Treasurer Minister For Infrastructure
D57695 Allotment 156	Volume 5858 Folio 64	Volume 5660 Folio 235	29 October 2001	Treasurer
D57695 Allotment 151	Volume 5858 Folio 215	Volume 5858 Folio 64	31 October 2001	Minister For Government Enterprises Treasurer

D76925 Allotment 6 D76925 Allotment 7 D76925 Allotment 8 D76925 Allotment 14 D76925 Allotment 21 D76925 Allotment (Road) 901 D76925 Allotment (Road) 902 D76925 Allotment (Road) 903 D20023 Allotment 2	Volume 5861 Folio 410	Volume 5732 Folio 370	06 December 2001	Distribution Lessor Corporation Minister For Economic Development City Of Port Adelaide Enfield
D52266 Allotment 23 D28143 Allotment 40 D28143 Allotment 48 D52266 Allotment 23	Volume 5863 Folio 7	Volume 5660 Folio 237 Volume 5660 Folio 238	21 December 2001	South East Australia Gas Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Minister For Environment And Conservation
D57695 Allotment 156	Volume 5859 Folio 947	Volume 5858 Folio 215	22 November 2001	Oe Sea Gas Spv2 Pty. Ltd. Rest Sea Gas Spv1 Pty. Ltd. South East Australia Gas Pty. Ltd. Anp Sea Gas Spv2 Pty. Ltd. Anp Sea Gas Spv3 Pty. Ltd. Rest Sea Gas Spv2 Pty. Ltd. Oe Sea Gas Spv3 Pty. Ltd. Apt Spv2 Pty. Ltd. Txu Sea Gas Spv2 Pty. Ltd. Apt Spv3 Pty. Ltd. Txu Sea Gas Spv1 Pty. Ltd.
D63481 Allotment 2	Volume 5898 Folio 168	Volume 5863 Folio 7	14 July 2003	Minister For Environment And Conservation
D63481 Allotment 2 D63481 Allotment 3	Volume 5898 Folio 167	Volume 5660 Folio 242	14 July 2003	Minister For Environment And Conservation
D63481 Allotment 1-2 D63481 Allotment 4	Volume 5898 Folio 166	Volume 5732 Folio 372	14 July 2003	Minister For Environment and Conservation
D64682 Allotment 202-4 D64682 Allotment 207 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5904 Folio 106	Volume 5859 Folio 947	13 October 2003	Land Management Corporation Minister For Environment And Conservation Minister For Infrastructure Treasurer

D63481 Allotment 2	Volume 5913 Folio 344	Volume 5660 Folio 241 Volume 5732 Folio 373 Volume 5898 Folio 166 Volume 5898 Folio 167 Volume 5898 Folio 168	18 March 2004	Minister For Environment And Conservation
D76309 Allotment 26	Volume 5913 Folio 346	Volume 5732 Folio 373 Volume 5898 Folio 166	18 March 2004	Minister For Economic Development
D64682 Allotment 205 D64682 Allotment 207-10 D64682 Allotment 212-13 D64682 Allotment 251-54	Volume 5913 Folio 343	Volume 5898 Folio 166 Volume 5898 Folio 168	18 March 2004	Land Management Corporation Minister For Environment And Conservation Minister For Infrastructure Treasurer Australian Rail Track Corporation Ltd.
D64682 Allotment 207	Volume 5920 Folio 565	Volume 5858 Folio 212 Volume 5904 Folio 106 Volume 5913 Folio 343	20 June 2004	Minister For Environment And Conservation
D76309 Allotment 20	Volume 5920 Folio 509	Volume 5913 Folio 344	19 July 2004	Minister For Economic Development
D76309 Allotment 20	Volume 5966 Folio 152	Volume 5920 Folio 565	19 June 2006	Minister For Economic Development
D76925 Allotment (Road) 901 D76925 Allotment (Road) 902 D76925 Allotment (Road) 903	Volume 6011 Folio 470	Volume 5660 Folio 239 Volume 5913 Folio 346	18 June 2008	City Of Port Adelaide Enfield Distribution Lessor Corporation
D76925 Allotment 5	Volume 6011 Folio 465	Volume 5660 Folio 239 Volume 5920 Folio 509 Volume 5966 Folio 152	18 June 2008	Minister For Economic Development

D20023 Allotment 2	Volume 6012 Folio 889	Volume 5861 Folio 410 Volume 6011 Folio 465 Volume 6011 Folio 470	7 July 2008	Minister For Economic Development
D82690 Allotment 101 D82690 Allotment 102 D82690 Allotment 103 D82690 Allotment 104 D20023 Allotment 4	Volume 6022 Folio 191	Volume 5732 Folio 371 Volume 6012 Folio 889	29 October 2008	Minister For Economic Development Sturgeon Pty. Ltd. Roseville Pty. Ltd
Allotment 103 Deposited Plan 82690 In The Area Named Outer Harbor Hundred Of Port Adelaide	Volume 6060 Folio 497	Volume 6022 Folio 191	31 May 2022	Urban Renewal Authority

Appendix C Soil Borehole Logs

2023 (Area 2 and 3)

SOIL BOREHOLE SB01

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Light brown gravelly SAND (fine-medium), with organics	SM	SB01_0.0-0.2	0	
		0.25 0.3 0.35 0.4		Fill	FILL - Grey brown silty SAND (medium), with fine-medium gravels, trace shells	SM	SB01_0.2-0.4	0	
		0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (medium), with fine-medium gravels, trace shells	SM	SB01_0.4-0.6	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1					SB01_0.6-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB02

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Yellow brown silty SAND (medium), with organics and trace coarse gravels	SM	SB02_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill	FILL - Grey silty SAND (fine-medium), trace shell grit	SM	SB02_0.2-0.5	0	
		0.8 0.85 0.9 0.95 1		Fill	FILL - Grey-brown silty SAND (fine-medium), trace shell grit	M	SB02_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB03

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Light-brown silty SAND (fine-medium), with fine gravels and organics	SM	SB03_0.0-0.2	0	DUP01/SPLIT01 Wet due to surface water
		0.25 0.3 0.35 0.4		Fill	FILL - Brown silty gravelly SAND (fine-medium), trace organics	SM	SB03_0.2-0.4	0	
		0.45 0.5 0.55 0.6		Fill	FILL - Grey-brown silty gravelly SAND (fine-medium), with fine gravels and trace shells	SM	SB03_0.4-0.6	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95					SB03_0.6-1.0	0	
		1 1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB04

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		SM	SAND - Pale-brown silty SAND (medium-coarse) low plasticity silt, with shells	M	SB04_0.0-0.2	0	
							SB04_0.2-0.4	0	
									Water strike on 'beach' area
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB05

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Light brown gravelly silty SAND (fine), with organics	SM	SB05_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Light brown gravelly silty SAND (fine)	SM	SB05_0.2-0.4	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Light grey brown silty SAND (fine), with fine gravels	SM	SB05_0.6-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB06

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Orange brown clayey SAND (fine-medium), with fine gravels	SM	SB06_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Grey brown silty CLAY (low-plasticity), trace fine gravels	M	SB06_0.2-0.4	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		CL-ML	CLAY - Grey with brown mottling silty CLAY (medium-plasticity), trace shells	M	SB06_0.6-0.8 SB06_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB07

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown sandy CLAY (medium-plasticity)	SM	SB07_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45		Fill	FILL - Orange brown grey mottling silty CLAY (low-plasticity)	SM	SB07_0.2-0.4	0	
		0.5 0.55 0.6 0.65 0.7 0.75		Fill	FILL - Grey silty SAND (fine)	M	SB07_0.5-0.8	0	
		0.8 0.85 0.9 0.95 1		SM	SAND - Brown silty SAND (fine), with organics	SM	SB07_0.8-1.0	0	PEAT
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB08

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown sandy silty CLAY (low/medium-plasticity)	M	SB08_0.0-0.2	0	PFAS + SPOCAS/DUP06/SPL
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill	FILL - Dark brown silty CLAY (low/medium-plasticity)	M	SB08_0.3-0.5	0	
		0.7 0.75 0.8 0.85 0.9 0.95		Fill	FILL - Grey silty SAND (fine-coarse)	W	SB08_0.7-1.0	0	Decaying organics odour
		1 1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB09

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low-plasticity)	SM	SB09_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Dark brown silty CLAY (medium-plasticity)	M	SB09_0.3-0.5	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey silty SAND (fine-medium), trace shell fragments	W	SB09_0.6-0.8 SB09_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB10

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (medium)	SM	SB10_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Grey brown beige silty SAND (fine-medium)	SM	SB10_0.5-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty SAND (fine-medium)	SM	SB10_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB11

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Grey brown silty CLAY (high-plasticity)	SM	SB11_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown with black mottling silty CLAY (high-plasticity)	SM	SB11_0.2-0.4	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Grey silty CLAY (high-plasticity)	W	SB11_0.6-0.8	0	Suspected water table
		0.85 0.9 0.95 1		Fill	FILL - Dark brown silty CLAY (high-plasticity), with organics and trace sands (coarse)	W	SB11_0.8-1.0	0	Decaying organics odour
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB12

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty gravelly SAND (medium-coarse)	SM	SB12_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Grey orange brown mottling CLAY (high-plasticity), with shell fragments, trace red brick fragments	SM	SB12_0.2-0.6	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey orange brown mottling CLAY (high-plasticity), with fine-medium sands	SM	SB12_0.6-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB13

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Grey brown silty SAND (fine-medium), with shell fragments	SM	SB13_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium), with shell fragments and clay (high-plasticity)	SM	SB13_0.4-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with shell fragments and coarse gravels	SM	SB13_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB14

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey brown silty gravelly CLAY (medium-plasticity), trace shell fragments and red brick fragments	SM	SB14_0.0-0.2	0	PFAS + SPOCAS
							SB14_0.5-0.8	0	
							SB14_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB15

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Grey brown sandy CLAY (high-plasticity), with shell fragments	SM	SB15_0.0-0.2 SB15_0.2-0.4	0 0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown sandy CLAY (high-plasticity)	SM	SB15_0.6-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB17

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Light brown silty SAND (medium-coarse), with shell fragments	SM	SB17_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Light brown silty SAND (medium-coarse), with shell fragments and gravels (medium-coarse)	SM	SB17_0.2-0.5	0	
		0.85 0.9 0.95 1					SB17_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB16

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Yellow brown SAND (fine-coarse), with shell and trace gravels (fine-medium)	M	SB16_0.0-0.2 SB16_0.3-0.35 SB16_0.7-1.0	0 0 0	Organics Black gravels
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB18

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Yellow brown SAND (fine-coarse), with shell fragments gravels (fine-coarse) and silt fragments	SM	SB18_0.0-0.2	0	PFAS
							SB18_0.3-0.5	0	
							SB18_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB19

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown Clayey SAND (fine-medium)	SM	SB19_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown sandy CLAY, with gravels (fine-medium)	SM	SB19_0.2-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey sandy SILT, with shells and trace gravels (fine-medium)	M	SB19_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB20

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 22-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Light brown silty SAND (medium-coarse), with shell fragments	SM	SB20_0.0-0.2 SB20_0.2-0.5 SB20_0.8-1.0	0 0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB21

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey brown Clayey SAND (fine-medium), with gravels (fine-medium) and silts	SM	SB21_0.0-0.2 SB21_0.3-0.5 SB21_0.7-1.0	0 0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB22

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown with grey mottling sandy CLAY (medium plasticity), with shell, brick fragments and gravels (fine-medium)	SM	SB22_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-coarse), with gravels (fine-medium) and trace black gravels (fine)	D	SB22_0.5-0.7	0	DUP02/SPLIT02
		0.85 0.9 0.95 1		CL-GC	CLAY - Pale brown gravelly CLAY (low-plasticity), with silts	M	SB22_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB23

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown Clayey SAND (fine-coarse), with gravels (fine-medium) and trace shell fragments	SM	SB23_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill	FILL - Brown sandy CLAY (medium-plasticity), trace shell fragments and fine gravels	M	SB23_0.5-0.8	0	
		0.95 1		Fill	FILL - Dark grey gravelly CLAY (low-plasticity), with coarse sands	M	SB23_0.9-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB24

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown sandy CLAY (medium-plasticity), with gravels (fine-coarse) and trace shell fragments	SM	SB24_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		CL-ML	CLAY - silty CLAY (low-plasticity), with gravels (fine) and sands (coarse) and trace shell fragments	M	SB24_0.3-0.5 SB24_0.7-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB25

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown sandy CLAY (medium-plasticity), with gravels (fine-medium) and trace red brick and shell fragments	SM	SB25_0.0-0.3	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark brown clayey SAND (fine-medium), with shells and trace gravels (fine-medium)	M	SB25_0.5-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark grey silty CLAY (low/medium-plasticity), with gravels (fine) sands (coarse) and trace gravels (medium)	M	SB25_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB26

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown clayey SAND (fine-medium), trace organics	D	SB26_0.0-0.2	0	PFAS
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown SAND (fine-medium), with clay (low/medium plasticity)	D	SB26_0.2-0.5	0	DUP03/SPLIT03
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown orange/brown silty sandy CLAY (low/medium plasticity)	SM	SB26_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB27

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown SAND (fine-medium)	D	SB27_0.0-0.2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty sandy CLAY (low/medium plasticity)	D	SB27_0.6-0.8 SB27_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB28

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low-plasticity)	SM	SB28_0.0-0.3	0	PFAS
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown orange/brown sandy CLAY (medium-plasticity)	SM	SB28_0.3-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty sandy CLAY (low-plasticity), trace red brick fragments	SM	SB28_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB29

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Yellow brown clayey SAND (fine-medium)	SM	SB29_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Yellow brown with some black mottling silty sandy CLAY (medium-plasticity)	SM	SB29_0.3-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Yellow brown sandy CLAY (medium-plasticity)	SM	SB29_0.7-1.0	0	One piece of slag noted
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB30

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB30_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Grey/brown with white mottling silty CLAY (low-plasticity)	SM	SB30_0.2-0.4	0	
		0.55 0.6 0.65 0.7		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine)	SM	SB30_0.5-0.6	0	Red brick fragments
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Light brown silty SAND (fine-medium), with organics	SM	SB30_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

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SOIL BOREHOLE SB31

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Pale brown silty SAND (fine-medium), with gravels (fine)	SM	SB31_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Dark grey GRAVELL (medium-coarse), with sands (fine-medium)	SM	SB31_0.2-0.5	0	
		0.55 0.6 0.65 0.7 0.75			Termination Depth at: 0.50 m.				Refusal on rock

SOIL BOREHOLE SB32

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown clayey SAND (fine-medium), with shells and gravels (fine-medium) and trace gravels (coarse)	SM	SB32_0.0-0.2	0	PFAS + SPOCAS DUP04/SPLIT04 (PFAS DUP)
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Dark grey sandy CLAY (low-plasticity), with gravels (fine) and trace shells	M	SB32_0.3-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Yellow brown SAND (fine-coarse), with clay (high-plasticity) and trace shells	M	SB32_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB33

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB33_0.0-0.2	0	DUP07/SPLIT07
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill	FILL - Black brown silty SAND (fine)	SM	SB33_0.2-0.4	0	
		0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown silty SAND (fine)	SM	SB33_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB34

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Pale brown silty SAND (fine-medium)	SM	SB34_0.0-0.2 SB34_0.3-0.5	0 0	
		0.85 0.9 0.95 1		Fill	FILL - Orange brown silty CLAY, with sand (fine-medium)	M	SB34_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB35

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown SAND (fine-medium)	SM	SB35_0.0-0.2 SB35_0.5-0.7	0 0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown SAND (fine-medium)	SM	SB35_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB36

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty sandy CLAY (low-plasticity), trace organics	D	SB36_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium)	SM	SB36_0.2-0.4	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Orange brown silty SAND (fine-coarse)	SM	SB36_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB37

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown clayey SAND (fine-medium)	SM	SB37_0.0-0.2	0	PFAS + SPOCAS
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill	FILL - Pale brown clayey SAND (fine-medium)	SM	SB37_0.4-0.6	0	
							SB37_0.7-1.0	0	
		1 1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB38

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Pale grey silty SAND (medium)	M	SB38_0.0-0.2	0	DUP05/SPLIT05
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey silty SAND (medium)	W	SB38_0.6-0.8 SB38_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB39

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low-plasticity), trace gravels (fine)	M	SB39_0.0-0.2	0	PFAS + SPOCAS
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark brown silty CLAY (low-plasticity)	M	SB39_0.3-0.5 SB39_0.7-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB40

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 23-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low-plasticity), trace gravels (fine)	M	SB40_0.0-0.2	0	PFAS + SPOCAS
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark brown silty CLAY (low-plasticity)	W	SB40_0.3-0.5 SB40_0.7-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB41

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown silty CLAY (high-plasticity), with organics	SM	SB41_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Grey brown mottling silty CLAY (high-plasticity), with organics	SM	SB41_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown mottling silty CLAY (low-plasticity), with sands (coarse)	W	SB41_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB42

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty CLAY (high-plasticity), with organics	SM	SB42_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark grey brown mottling silty CLAY (high-plasticity), with organics	M	SB42_0.2-0.4	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (low-plasticity), with sands (medium-coarse)	M	SB42_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB43

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown silty CLAY (low-plasticity), with gravels (fine) and sands (medium)	SM	SB43_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown with black/grey mottling silty CLAY (low-plasticity), with sands (fine)	SM	SB43_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Brown with black/grey mottling silty CLAY (low-plasticity), with sands (medium)	SM	SB43_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB44

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty CLAY (low-plasticity)	SM	SB44_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Grey brown silty CLAY (low-plasticity)	M	SB44_0.2-0.4	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey brown/black silty CLAY (low-plasticity)	M	SB44_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB45

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty CLAY (high-plasticity), with organics	SM	SB45_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Grey brown silty CLAY (high-plasticity), with organics	SM	SB45_0.5-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (high-plasticity), with organics	W	SB45_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB46

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Grey silty SAND (fine-medium), with organics	SM	SB46_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark grey brown silty SAND (fine-medium), with organics	SM	SB46_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark brown silty CLAY (low-plasticity), with organics	SM	SB46_0.8-1.0	0	Decayed organics odour
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB47

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Grey SAND (fine-medium)	M	SB47_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark grey silty SAND (fine-medium)	M	SB47_0.3-0.5	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark grey silty clayey SAND (fine-medium)	M	SB47_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB48

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Grey brown silty SAND (fine-medium), with organics and trace clays	M	SB48_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey brown silty CLAY (low-plasticity), with sand (fine-medium)	M	SB48_0.4-0.6 SB48_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB49

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty SAND (fine)	SM	SB49_0.0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Dark grey brown silty CLAY (low-plasticity), with organics	M	SB49_0.2-0.3	0	
									Potential void
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey/brown with brown mottling silty CLAY (low-plasticity), with organics	M	SB49_0.5-0.7	0	
							SB49_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB50

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Grey brown silty gravelly SAND (fine-coarse)	SM	SB50_0-0.2	0	
		0.4		Fill	FILL - Orange brown clayey SAND (fine-coarse), with gravels (fine-medium)	SM	SB50_0.3-0.5	0	
		0.6							
		0.8					SB50_0.8-1.0	0	
		1							
		1.2							
		1.4		Fill	FILL - Pale grey silty SAND (fine-medium)	SM	SB50_1.3-1.5	0	
		1.6							
		1.8		Fill	FILL - Grey brown silty CLAY (low-plasticity)	SM	SB50_1.7-2.0	0	
		2							
		2.2							
		2.4		SW	SAND - Grey brown SAND (coarse), with gravels (fine) and shells and trace decayed organics	SM	SB50_2.3-3.0	0	
		2.6							
		2.8							
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB51

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown silty CLAY (low-plasticity), with organics	SM	SB51_0.0-0.2	0	PFAS + SPOCAS
		0.45 0.5 0.55 0.6		Fill	FILL - Grey brown silty CLAY (low-plasticity)	M	SB51_0.2-0.4	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Beige with grey brown mottling silty CLAY (high-plasticity)	M			
		0.85 0.9 0.95 1		Fill	FILL - Beige with grey brown mottling silty CLAY (high-plasticity), with sands (fine-medium)	M	SB51_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				Water strike approximately at 1 m

SOIL BOREHOLE SB52

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 24-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low-plasticity), trace organics	M	SB52_0.0-0.2	0	PFAS + SPOCAS
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (low-plasticity)	M	SB52_0.3-0.5 SB52_0.8-1.0	0 0	Decaying organics odour
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB53

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Fill	FILL - Pale brown SAND (fine-coarse), with shells and gravels (fine-coarse)	SM	SB53_0-0.2	0	
		0.2		Fill	FILL - Grey sandy CLAY (low-plasticity), with trace shells	SM	SB53_0.2-0.5	0	
		0.5		Fill	FILL - Pale grey brown silty SAND (fine)	M	SB53_0.5-0.8	0	
		1.1		Fill	FILL - Pale orange brown silty SAND (fine-medium)	M	SB53_1.1-1.3	0	
		1.8		SM	SAND - dark brown/black silty SAND (fine), with decaying organics	W	SB53_1.8-2.0	0	Hydrogen sulfide odour
		2			Termination Depth at: 2.00 m.				
		2.1							

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SOIL BOREHOLE SB54

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Pale brown SAND (fine-coarse), with fines and trace gravels (fine-medium) and pieces of earthenware pipe	SM	SB54_0-0.2 SB54_0.3-0.5	0 0	
		0.85 0.9 0.95 1		Fill	FILL - Brown SAND (fine-medium), with trace shell grit (fine-medium)	SM	SB54_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB55

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown SAND (fine-coarse), with gravels (fine-medium) and trace clay and silt fines, glass and shell fragments	SM	SB55_0-0.2 SB55_0.3-0.5 SB55_0.8-1.0	0 0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB56

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (medium) and trace gravels (fine) and shells	M	SB56_0-0.2 SB56_0.3-0.5	0 0	
		0.65 0.7 0.75 0.8		Fill	FILL - Pale brown silty SAND (fine-medium)	M	SB56_0.6-0.8	0	
		0.85 0.9 0.95 1 1.05 1.1 1.15			Termination Depth at: 0.80 m.				Refusal on rock

SOIL BOREHOLE SB57

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with clay fines gravels (fine-medium) and trace shell grit (fine-medium) gravel (coarse)	SM	SB57_0-0.2	0	PFAS
							SB57_0.3-0.5	0	
							SB57_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB58

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Orange brown silty SAND (fine-coarse), with gravels (fine-coarse) and trace shells	SM	SB58_0-0.2 SB58_0.3-0.5	0 0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace shells	SM	SB58_0.5-0.7 SB58_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB59

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace clay fines	SM	SB59_0.0-0.2 SB59_0.3-0.5 SB59_0.8-1.0	0 0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB60

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB60_0.0-0.2	0	DUP08/SPLIT08 Red brick and glass fragments
		0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB60_0.6-0.7 SB60_0.8-1.0	0 0	Red brick fragments, bitumen and shells
		1 1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB61

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-coarse)	SM	SB61_0.0-0.2 SB61_0.3-0.5 SB61_0.8-1.0	0 0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB62

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB62_0.0-0.2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB62_0.6-0.8	0	Red brick fragments
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB63

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB63_0.0-0.2	0	
		0.55 0.6		Fill	FILL - Grey brown silty SAND (fine-medium), with gravels (fine)	SM	SB63_0.5-0.6	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine)	SM	SB63_0.6-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey and brown mottling silty CLAY (high-plasticity)	SM	SB63_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB64

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-coarse)	SM	SB64_0.0-0.2	0	
		0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium), with gravels (fine-coarse)	SM	SB64_0.5-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty CLAY (high-plasticity)	SM	SB64_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB65

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Yellow brown silty SAND (fine-medium), with gravels (fine-medium) and trace organics	SM	SB65_0-0.2	0	PFAS DUP09/SPLIT09
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark brown sandy CLAY (low-plasticity), with gravel (fine-medium) and trace ash/cinders	SM	SB65_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Yellow brown silty SAND (fine-medium),	SM	SB65_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB66

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Orange brown silty SAND (fine-coarse), with trace gravels (fine-medium)	SM	SB66_0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill	FILL - Dark orange brown silty SAND (fine-medium), with trace black gravels (fine-medium) and brick fragments	SM	SB66_0.4-0.7	0	
		0.95 1		Fill	FILL - Brown silty CLAY (low-plasticity), with gravels (fine) and trace brick fragments	M	SB66_0.9-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB67

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium), with gravel (fine-medium)	D	SB67_0-0.2 SB67_0.3-0.5	0 0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown/black sandy CLAY (medium-plasticity), with gravel (fine-medium)	SM	SB67_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB68

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB68_0-0.2	0	PFAS
							SB68_0.3-0.5	0	
		0.55 0.6 0.65 0.7		Fill	FILL - Dark brown/black silty SAND (fine-medium), with gravels (fine-coarse) and ash/cinders, and trace clay fines	SM	SB68_0.5-0.7	0	Dark/ashy
		0.75 0.8 0.85 0.9 0.95			Termination Depth at: 0.70 m.				

SOIL BOREHOLE SB69

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown SAND (fine-coarse), with clay clumps, and trace gravels (fine-medium) and shell grit	SM	SB69_0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Dark brown SAND (fine-coarse), with gravels (fine-medium)	SM	SB69_0.3-0.5 SB69_0.5-0.7	0 0	Refusal on rock
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1							
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB70

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium), with gravel (fine-medium) and trace gravels (coarse)	D	SB70_0-0.2 SB70_0.3-0.5	0 0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown sandy CLAY (medium-plasticity), with trace gravel (fine-medium)	SM	SB70_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB71

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium), with clay fines and trace gravel (fine-medium)	D	SB71_0-0.2 SB71_0.3-0.5	0 0	
		0.75 0.8		Fill	FILL - Grey brown CLAY (medium-plasticity), and trace sands (fine-medium)	SM	SB71_0.7-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Pale grey SAND (fine)	SM	SB71_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB72

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Yellow brown/brown silty SAND (fine-medium), with trace gravels (fine-medium)	D	SB72_0-0.2	0	PFAS
		0.55 0.6 0.65 0.7		Fill	FILL - White/brown SAND (fine), with trace red brick fragments	D	SB72_0.5-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown SAND (fine-coarse), with trace red brick fragments and roots	SM	SB72_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB73

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace red brick fragments	SM	SB73_0-0.2	0	
		0.4					SB73_0.3-0.5	0	
		0.6		Fill	FILL - Brown silty SAND (fine-medium), with clay clumps and trace shells and gravel (fine-medium)	SM	SB73_0.5-0.8	0	
		1.2							
		1.4					SB73_1.3-1.8	0	
		1.8							
		2		Fill	FILL - White SILT (medium-plasticity)	M	SB73_2.0-2.2	0	Sandy lens with gravels (medium)
		2.2							
		2.4		Fill	FILL - Grey brown silty SAND (fine-coarse)	M	SB73_2.4-2.6	0	
		2.6							
		2.8		SM	SAND - Dark brown silty SAND (fine-medium), with fibres and decaying organics	M	SB73_2.7-3.0	0	Hydrogen sulfide odour
		3			Termination Depth at: 3.00 m.				

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SOIL BOREHOLE SB74

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace slag and red brick fragments	SM	SB74_0-0.2	0	PFAS + SPOCAS DUP30/SPLIT30
		0.4					SB74_0.3-0.5	0	
		0.6		Fill	FILL - Brown silty SAND (fine-medium), with clay fines and clumps and trace gravels (fine-coarse)	SM	SB74_0.5-0.8	0	
		0.8							
		1							
		1.2							
		1.4					SB74_1.3-1.5	0	
		1.6							Crushed rock (refusal of PT) continued with hand auger
				Fill	FILL - Yellow gravelly SAND (fine-coarse)	SM	SB74_1.6-1.7	0	
		1.8		Fill	FILL - mottled SILT (medium-plasticity)	M	SB74_1.7-2.0	0	
		2							
		2.2							
		2.4							
		2.6					SB74_2.6-3.0	0	
		2.8							
		3			Termination Depth at: 3.0 m.				

SOIL BOREHOLE SB75

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with shells and gravels (fine-medium) and trace red brick fragments	SM	SB75_0-0.2	0	PFAS + SPOCAS
		0.4					SB75_0.3-0.5	0	
		0.6							
		0.8							
		1					SB75_1.0-1.3	0	
		1.2							
		1.4							
		1.6							Refusal of PT continued with hand auger
		1.8		Fill	FILL - Pale/yellow brown gravelly SAND (fine-coarse)	SM	SB75_1.7-1.8	0	
		2		Fill	FILL - White SILT (medium-plasticity)	M	SB75_1.8-2.0	0	
		2.2							
		2.4		Fill	FILL - Dark grey/dark green silty SAND (fine-coarse), with gravels (fine-medium) and trace clay fines/clumps	M	SB75_2.3-2.5	0	
		2.6							
		2.8					SB75_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB76

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium), trace red brick fragments	SM	SB76_0-0.2	0	
		0.4					SB76_0.3-0.5	0	
		0.6		Fill	FILL - Brown silty SAND (fine-medium), with clay fines and trace gravels (fine-medium)	SM	SB76_0.6-0.8	0	
		1.2					SB76_1.3-1.5	0	
		1.6		Fill	FILL - Pale pink brown sandy SILT (low/medium-plasticity)	M	SB76_1.6-1.8	0	
		2		Fill	FILL - Dark green sandy SILT (low-plasticity)	M	SB76_1.9-2.0	0	
		2.6					SB76_2.5-2.7	0	
		2.8		Fill	FILL - Black SILT (low-plasticity) and trace sands (fine)	M	SB76_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB77

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with red brick fragments and gravels (fine-medium)	SM	SB77_0-0.2	0	
		0.4					SB77_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Pale grey SAND (fine-coarse)	SM	SB77_0.7-0.9	0	
		1		Fill	FILL - Dark grey clayey SAND (fine-medium)	SM	SB77_0.9-1.1	0	
		1.2							
		1.4							
		1.6					SB77_1.6-1.7	0	
		1.8							
		2							
		2.2		Fill	FILL - Pale grey silty SAND (fine-medium), with trace gravels	SM	SB77_2.1-2.3	0	
		2.4							
				Fill	FILL - Pale pink SAND (fine-medium)	M	SB77_2.4-2.6	0	
		2.6							
		2.8		Fill	FILL - Dark green sandy SILT (low-plasticity)	M	SB77_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB78

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and red brick fragments	SM	SB78_0-0.2 SB78_0.3-0.5	0 0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty SAND (fine-medium), with gravels (fine-medium) and organics	SM	SB78_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB79

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	M	SB79_0-0.2	0	Slate rock fragments
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Pale grey brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB79_0.3-0.5	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	M	SB79_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB80

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine) and organics	M	SB80_0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Grey brown silty SAND (fine-medium), with gravels (fine)	SM	SB80_0.3-0.5	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (medium-coarse) and organics	SM	SB80_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB81

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and organics	SM	SB81_0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB81_0.3-0.5	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown silty SAND (fine-coarse), with gravels (fine-medium)	SM	SB81_0.6-0.8	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB82

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Yellow brown silty SAND (fine-medium)	SM	SB82_0-0.2	0	
							SB82_0.6-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB82_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB83

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB83_0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Grey brown silty SAND (fine-medium), with gravels (fine-medium) and clays (high-plasticity)	SM	SB83_0.3-0.5	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark grey brown silty SAND (fine-medium), with gravels (fine-medium) and shells	SM	SB83_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB84

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB84_0-0.2	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium) and organics	SM	SB84_0.6-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB84_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB85

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (medium)	SM	SB85_0-0.2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (medium)	SM	SB85_0.6-0.7 SB85_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB86

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace clays (high-plasticity)	SM	SB86_0-0.2	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Dark brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB86_0.6-0.7	0	Slate rock fragments
		0.85 0.9 0.95 1		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and organics	SM	SB86_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB87

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JB/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB87_0-0.2	0	
							SB87_0.3-0.5	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Mottled brown and white silty CLAY (high-plasticity), with gravels (fine-medium)	SM	SB87_0.6-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Mottled brown and white silty CLAY (high-plasticity), with gravels (fine-medium) and organics	SM	SB87_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB88

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium), with trace gravels (fine-medium)	SM	SB88_0-0.2 SB88_0.4-0.7	0 0	
		0.85 0.9 0.95 1		Fill	FILL - Brown sandy CLAY (medium-plasticity), with trace red brick fragments	SM	SB88_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB89

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Pale brown SAND (fine-medium), with silt fines and trace graces (fine-medium)	SM	SB89_0-0.2	0	PFAS
		0.55 0.6 0.65 0.7		Fill	FILL - Brown silty SAND (fine), with trace graces (fine-medium)	SM	SB89_0.5-0.7	0	Red brick fragments
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty CLAY (high-plasticity), with gravels (fine-medium)	SM	SB89_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB90

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown Clayey SAND (fine-coarse), with gravels (fine-medium)	SM	SB90_0.0-0.2 SB90_0.3-0.5	0 0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown sandy CLAY (medium/high-plasticity), with trace gravels (fine-medium)	SM	SB90_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB91

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill	FILL - Brown silty SAND (fine-medium), with trace clay fines	M	SB91_0.0-0.2	0	
		0.25 0.3		Fill	FILL - Brown silty sandy CLAY (low/medium plasticity)	M			
		0.35 0.4 0.45 0.5 0.55 0.6					SB91_0.3-0.6	0	
		0.65 0.7 0.75 0.8		Fill	FILL - Grey brown clayey silty SAND (fine-medium), with gravels (fine-medium)	M	SB91_0.6-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (low/medium plasticity)	M	SB91_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB92

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium), with trace gravels (fine-medium)	W	SB92_0.0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill	FILL - Brown clayey silty SAND (fine-medium), with gravels (fine-medium)	M	SB92_0.3-0.5	0	
		0.8 0.85 0.9 0.95 1		Fill	FILL - Brown silty sandy CLAY (low/medium plasticity)	M	SB92_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB93

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-coarse), with gravels (fine-medium)	SM	SB93_0-0.2 SB93_0.3-0.5	0 0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown sandy CLAY (medium-plasticity)	SM	SB93_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB94

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 26-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Orange brown silty CLAY (low/medium-plasticity), with gravels (fine-medium)	SM	SB94_0-0.2	0	PFAS
							SB94_0.3-0.5	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown clayey SAND (fine-medium), with silt fines and trace brick and slag fragments and gravels (fine-medium)	SM	SB94_0.5-0.8	0	
							SB94_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB95

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB95_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill	FILL - Brown/dark brown silty SAND (fine-medium)	SM	SB95_0.5-0.7	0	
		0.95 1		CL-ML	CLAY - Dark brown/black silty CLAY (low/medium-plasticity)	SM	SB95_0.9-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB96

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty SAND (fine-medium), with trace gravels (fine-coarse)	SM	SB96_0.0-0.2 SB96_0.3-0.5	0 0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown/black sandy CLAY (medium-plasticity), with black silty clay clumps	M	SB96_0.5-0.7 SB96_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB97

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty SAND (fine-medium)	M	SB97_0.0-0.3	0	
		0.35 0.4		Fill	FILL - Dark brown silty SAND (fine-medium), with clay fines and trace shell grit	M	SB97_0.3-0.5	0	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Black brown clayey silty SAND (fine-medium), with trace slag pieces (fine-coarse)	M	SB97_0.7-1.0	0	
		0.75 0.8 0.85 0.9 0.95 1							
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB98

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Pale brown silty SAND (fine-coarse), with trace gravels (fine-medium)	SM	SB98_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown sandy CLAY (low/medium-plasticity), with gravel (fine-medium)	SM	SB98_0.4-0.6	0	DUP12/SPLIT12
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB98_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB99

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Pale brown SAND (fine-coarse), with silt fines and gravel (fine-medium)	SM	SB99_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown silty SAND (fine-medium), with trace gravel (fine-medium)	SM	SB99_0.3-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown/dark brown silty SAND (fine-medium), with clay clumps and trace gravels (fine-medium) and shells	SM	SB99_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

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SOIL BOREHOLE SB100

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Yellow brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB100_0-0.2 SB100_0.3-0.5	0 0	
		0.85 0.9 0.95 1		Fill	FILL - Brown yellow/brown silty SAND (fine-medium), with trace gravels (fine-medium)	SM	SB100_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB101

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Yellow brown silty SAND (fine-medium)	SM	SB101_0.0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown SAND (fine-medium)	SM	SB101_0.3-0.5	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey SAND (fine-medium)	SM	SB101_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB102

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Pale brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB102_0.0-0.3	0	PFAS
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown silty SAND (fine-medium), with clay clumps and trace gravels (fine-medium)	SM	SB102_0.5-0.7	0	
							SB102_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB103

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Yellow brown silty SAND (fine-medium), with gravel (fine-medium) and trace shell grit	SM	SB103_0.0-0.2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Grey brown silty SAND (fine-medium), with trace gravel (fine-medium)	SM	SB103_0.5-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - White silty SAND (medium)	SM	SB103_0.8-1.0	0	Chalky texture
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB104

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Brown gravelly SAND (fine-medium), with silt fines	SM	SB104_0.0-0.2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown clayey SAND (fine-medium)	SM	SB104_0.6-0.8	0	
							SB104_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB105

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Orange brown gravelly SAND (fine-medium), with gravels (medium)	D	SB105_0.0-0.2	0	PFAS
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill	FILL - Orange brown clayey SAND (fine-medium), with gravels (fine-medium) and trace silt fines and red brick fragments	SM	SB105_0.3-0.5	0	
		0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale orange brown clayey SAND (fine-medium), with gravels (fine-medium)	SM	SB105_0.7-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB106

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and red brick fragments	SM	SB106_0-0.2	0	PFAS
		0.4					SB106_0.3-0.5	0	
		0.6							
		0.8							
		1					SB106_1.0-1.3	0	
		1.2							
		1.4							
		1.6		Fill	FILL - Black clayey silty SAND (fine-medium)	SM	SB106_1.5-1.8	0	
		1.8							
		2		Fill	FILL - Pale grey silty SAND (medium)	SM	SB106_1.9-2.1	0	
		2.2		SM	SAND - Brown silty SAND (fine-medium), with organics	M	SB106_2.1-2.3	0	SPOCAS PEAT
		2.4							
		2.6							
		2.8					SB106_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB107

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with clay fines and trace gravels (fine)	SM	SB107_0.0-0.2	0	PFAS + SPOCAS
		0.4					SB107_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Dark grey brown clayey SAND (fine-medium), with silt fines and trace organics	M	SB107_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6					SB107_1.5-1.7	0	
		1.8							
		2							
		2.2		Fill	FILL - Dark grey sandy SILT (low/medium-plasticity), with organics	M	SB107_2.2-2.4	0	Matted organic fibres and decayed wood
		2.4							
		2.6							
		2.8					SB107_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB108

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty CLAY (medium-plasticity)	SM	SB108_0.0-0.2	0	PFAS + SPOCAS
		0.4					SB108_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Dark grey brown silty SAND (fine-coarse), with gravels (fine-medium) and trace slag and red brick fragments	SM	SB108_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6		Fill	FILL - Pale grey SAND (medium-coarse), with silt fines	SM	SB108_1.5-1.7	0	
		1.8							
		2							
		2.2		Fill	FILL - Pale pink sandy SILT (low-plasticity)	M	SB108_2.1-2.3	0	
		2.4							
		2.6							
		2.8		Fill	FILL - Green brown sandy SILT (low/medium-plasticity)	M	SB108_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

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SOIL BOREHOLE SB109

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Pale orange brown silty SAND (fine-medium), with clay fines and trace gravel fines and shells	SM	SB109_0.0-0.2	0	PFAS + SPOCAS
		0.4					SB109_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Dark grey brown clayey SAND (fine-medium)	SM	SB109_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6					SB109_1.5-1.7	0	
		1.8							
		2							
		2.2							
		2.4		Fill	FILL - Dark grey sandy SILT (low/medium-plasticity)	M	SB109_2.3-2.5	0	Matted organics
		2.6							
		2.8		Fill	FILL - Pale grey silty SAND (fine-medium)	M	SB109_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB110

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown sandy CLAY (medium-plasticity)	SM	SB110_0.0-0.2	0	PFAS
		0.4							
							SB110_0.4-0.6	0	
		0.6							
		0.8							
		1		Fill	FILL - Dark grey brown silty SAND (fine-coarse), with gravels (fine-medium) and trace slag and red brick fragments	SM	SB110_0.9-1.1	0	
		1.2							
		1.4							
		1.6		Fill	FILL - pale grey SAND (medium-coarse), with silt fines	SM	SB110_1.5-1.7	0	
		1.8							
		2							
		2.2		Fill	FILL - Grey white SILT (medium-plasticity)	SM	SB110_2.1-2.3	0	
		2.4							
		2.6							
		2.8		Fill	FILL - Green/brown silty SAND (fine)	SM	SB110_2.7-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB111

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Orange brown silty SAND (fine-medium), with trace gravels (fine)	SM	SB111_0-0.2	0	PFAS + SPOCAS
		0.4					SB111_0.3-0.5	0	DUP32/SPLIT32 (29/05/2023)
		0.6							
		0.8		Fill	FILL - Brown with grey mottling sandy CLAY (low/medium-plasticity)	SM	SB111_0.8-1.1	0	
		1							
		1.2							
		1.4		Fill	FILL - Grey brown silty SAND (fine-coarse), with gravels (fine-medium) and trace organics	W	SB111_1.4-1.7	0	
		1.6							
		1.8							
		2							
		2.2					SB111_2.2-2.5	0	
		2.4							
		2.6							
		2.8		Fill	FILL - Black silty CLAY (low/medium-plasticity)		SB111_2.7-3.0	0	
		3			Termination Depth at: 3.00 m.				

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SOIL BOREHOLE SB112

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Orange brown gravelly SAND (fine-coarse)	SM	SB112_0.0-0.2	0	
		0.4					SB112_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Grey brown silty SAND (fine-coarse)	SM	SB112_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6		Fill	FILL - Grey brown SAND (medium)	SM	SB112_1.5-1.8	0	
		1.8							
		2		Fill	FILL - Grey brown to white SILT (medium-plasticity)	M	SB112_1.9-2.2	0	
		2.2							
		2.4							
		2.6							
		2.8		Fill	FILL - Grey brown SAND (medium-coarse), with silt fines	M	SB112_2.7-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB113

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Pale brown silty SAND (fine-medium), with gravels (fine-medium) and trace shells	SM	SB113_0.0-0.2	0	PFAS
		0.4					SB113_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Grey brown silty SAND (fine-medium), with trace red brick fragments	SM	SB113_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6					SB113_1.5-1.7	0	
		1.8		Fill	FILL - Pale grey SAND (medium), with silt fines	SM	SB113_1.7-1.9	0	
		2							
		2.2							
		2.4		Fill	FILL - White/tan SILT (medium-plasticity), with trace sand (fine)	M	SB113_2.3-2.5	0	
		2.6							
		2.8		Fill	FILL - grey brown with dark grey mottling silty CLAY (low-plasticity)	M	SB113_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB114

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with trace black gravels (fine)	SM	SB114_0.0-0.2	0	PFAS
		0.4					SB114_0.3-0.5	0	
		0.6							
		0.8							
		1					SB114_1.0-1.2	0	
		1.2							
		1.4							
		1.6		Fill	FILL - Pale grey silty SAND (medium-coarse)	SM	SB114_1.5-1.8	0	
		1.8							
		2							
		2.2		Fill	FILL - Beige/white SILT (medium plasticity), with sand (fine)	M	SB114_2.2-2.4	0	
		2.4							
		2.6							
		2.8		Fill	FILL - Pale grey/pale blue sandy SILT (low/medium plasticity)	M	SB114_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB115

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Orange brown gravelly SAND (fine-coarse)	SM	SB115_0.0-0.2 SB115_0.3-0.5 SB115_0.6-0.8	0 0 0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey brown gravelly SAND (fine-medium)	SM	SB115_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB116

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen	FILL - Bitumen	D	SB116_0.0-0.2	0	PFAS
		0.1		Fill	FILL - Orange brown gravelly SAND (fine-medium)	D			
		0.15							
		0.2							
		0.25							
		0.3		Fill	FILL - Orange brown clayey SAND (fine-medium), with gravels (fine-medium) and trace silt fines	SM	SB116_0.3-0.5	0	
		0.35							
		0.4							
		0.45							
		0.5							
		0.55							
		0.6							
		0.65							
		0.7		Fill	FILL - Pale orange brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB116_0.7-1.0	0	SPOCAS
		0.75							
		0.8							
		0.85							
		0.9							
		0.95							
		1			Termination Depth at: 1.00 m.				
		1.05							
		1.1							
		1.15							

SOIL BOREHOLE SB117

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Orange brown gravelly SAND (fine-medium), with gravels (fine-medium)	SM	SB117_0.0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Pale brown silty SAND (fine-medium), with clay fines	M	SB117_0.3-0.5 SB117_0.7-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB118

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen	FILL - Bitumen	D	SB118_0.0-0.2	0	
		0.1		Fill	FILL - Pale brown gravelly SAND (fine-medium), with gravels (fine-medium) and red brick fragments	SM			
		0.15							
		0.2							
		0.25							
		0.3		Fill	FILL - Pale brown silty SAND (fine-medium), with clay fines	SM	SB118_0.3-0.6	0	
		0.35							
		0.4							
		0.45							
		0.5							
		0.55							
		0.6							
		0.65							
		0.7							
		0.75							
		0.8					SB118_0.8-1.0	0	
		0.85							
		0.9							
		0.95							
		1			Termination Depth at: 1.00 m.				
		1.05							
		1.1							
		1.15							

SOIL BOREHOLE SB119

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen	FILL - Bitumen	D	SB119_0.0-0.2	0	
		0.1		Fill	FILL - Grey brown gravelly SAND (fine-medium)	SM			
		0.2		Fill	FILL - Brown clayey SAND (fine-medium), with silt fines	SM	SB119_0.2-0.5	0	
		0.5							
		0.7		Fill	FILL - Brown silty SAND (fine-medium), with clay fines	SM	SB119_0.7-1.0	0	
		1			Termination Depth at: 1.00 m.				
		1.15							

SOIL BOREHOLE SB120

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen	FILL - Bitumen	D	SB120_0.0-0.2	0	
		0.1		Fill	FILL - Pale brown gravelly SAND (fine-medium), with gravels (fine- medium)	SM			
		0.15							
		0.2							
		0.25							
		0.3		Fill	FILL - Orange brown clayey SAND (fine-medium), with gravels (fine- medium)	SM	SB120_0.3-0.5	0	
		0.35							
		0.4							
		0.45							
		0.5		Fill	FILL - Pale brown silty SAND (fine-medium), with black cinders and gravels (fine- medium)	SM	SB120_0.5-0.7	0	
		0.55							
		0.6							
		0.65							
		0.7							
		0.75							
		0.8					SB120_0.8-1.0	0	
		0.85							
		0.9							
		0.95							
		1							
		1.05			Termination Depth at: 1.00 m.				
		1.1							
		1.15							

SOIL BOREHOLE SB121

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Pale brown silty SAND (fine-medium), with trace gravels (fine-medium)	SM	SB121_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill	FILL - Brown clayey SAND (fine-medium), with trace gravels (fine-medium)	SM	SB121_0.4-0.6	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark grey silty SAND (fine-medium), with clay clumps, and trace gravels (fine-medium) and shells	SM	SB121_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

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SOIL BOREHOLE SB122

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Yellow brown silty SAND (fine-coarse), with gravels (fine-medium)	SM	SB122_0.0-0.2	0	
		0.55 0.6 0.65 0.7		Fill	FILL - Dark brown SAND (fine-coarse), with silt and clay fines and trace gravels (fine-medium)	SM	SB122_0.5-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Brown SAND (fine-medium)	SM	SB122_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB123

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Yellow brown/Pale brown silty SAND (fine-medium)	SM	SB123_0.0-0.2	0	PFAS + DUP13/SPLIT13
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB123_0.5-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Dark brown silty sandy CLAY (low-plasticity)	M	SB123_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB124

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown/pale brown silty SAND (fine-medium)	SM	SB124_0.0-0.3	0	
		0.45 0.5 0.55 0.6		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium)	SM	SB124_0.4-0.6	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Dark brown silty SAND (fine-medium), with clay (low-plasticity)	SM	SB124_0.6-0.8 SB124_0.8-1.0	0 0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB125

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Orange brown gravelly SAND (fine-coarse)	SM	SB125_0.0-0.2	0	PFAS
		0.4		Fill	FILL - Grey brown silty SAND (fine-medium)	SM	SB125_0.3-0.5	0	
		0.6							
		0.8							
		1					SB125_1.0-1.2	0	
		1.2		Fill	FILL - Dark black brown silty CLAY (medium-plasticity)	SM	SB125_1.2-1.4	0	
		1.4							
		1.6							
		1.8		Fill	FILL - Pale grey SAND (medium)	SM	SB125_1.8-2.0	0	
		2							
		2.2							
		2.4		Fill	FILL - Pale blue brown SILT (medium-plasticity), trace sands (fine)	SM	SB125_2.4-2.6	0	
		2.6							
		2.8					SB125_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB126

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Bitumen	FILL - Bitumen	D	SB126_0.0-0.2	0	
		0.4		Fill	FILL - Orange brown gravelly SAND (fine-coarse)	SM	SB126_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Grey brown silty SAND (fine-medium), with silt fines	SM	SB126_0.8-1.1	0	DUP32/SPLIT32 (31/5/2023)
		1							
		1.2							
		1.4		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine)	SM	SB126_1.5-1.8	0	
		1.6							
		1.8							
		2							
		2.2		Fill	FILL - Pale grey silty SAND (fine-medium)	M	SB126_2.2-2.5	0	
		2.4							
		2.6		Fill	FILL - Grey brown sandy SILT (low/medium-plasticity)	W	SB126_2.7-3.0	0	
		2.8							
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB127

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Bitumen	FILL - Bitumen	D	SB127_0.0-0.3	0	PFAS
				Fill	FILL - Pale brown gravelly SAND (fine-medium)	D			
		0.4		Fill	FILL - Orange brown gravelly SAND (fine-medium), with clay fines	SM	SB127_0.4-0.6	0	
		0.6							
		0.8		Fill	FILL - Grey brown silty SAND (fine-medium), with gravels (fine-medium) and trace shell fragment	SM	SB127_0.8-1.0	0	
		1							
		1.2							
		1.4					SB127_1.3-1.5	0	
		1.6		Fill	FILL - Brown SAND (fine-coarse), with clay fines and trace gravels (fine)	SM	SB127_1.6-1.8	0.1	
		1.8							
		2							
		2.2							
		2.4		Fill	FILL - Dark grey green SAND (fine-coarse), with sand (fine)	M	SB127_2.3-2.5	0.1	
		2.6							
		2.8					SB127_2.8-3.0	0.1	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB128

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT				Fill	FILL - Grey brown gravelly SAND (fine-medium)	M	SB128_0..0-0.2	0	PFAS + SPOCAS
		0.2		Fill	FILL - Grey brown silty SAND (fine-medium)	W	SB128_0.2-0.5	0	
		0.4							
		0.6							
		0.8							
		1					SB128_1.0-1.3	0	
		1.2							
		1.4							
		1.6							
		1.8		Fill	FILL - Grey brown silty gravelly SAND (fine-coarse)	W	SB128_1.7-2.0	0	
		2							
		2.2							
		2.4							
		2.6					SB128_2.5-2.7	0	
		2.8							
							SB128_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB129

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 31-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT				Bitumen	FILL - Bitumen	D	SB129_0.0-0.2	0	
		0.2		Fill	FILL - Grey brown gravelly SAND (fine-medium)	D			
		0.4		Fill	FILL - Pale brown clayey SAND (fine-medium), with gravels (fine-medium)	SM	SB129_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Grey brown silty SAND (fine-medium)	SM	SB129_0.8-1.0	0	
		1							
		1.2							
		1.4							
		1.6					SB129_1.5-1.7	0	Silty clay lens
		1.8							
		2		Fill	FILL - Pale grey silty SAND (fine-medium)	SM	SB129_2.0-2.3	0	
		2.2							
		2.4		Fill	FILL - Pale grey/white silty SAND (fine-medium), with sands (fine) and trace gravels (medium)	M	SB129_2.4-2.6	0.1	
		2.6							
		2.8					SB129_2.8-3.0	0.1	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB130

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB130_0.0-0.2	0	PFAS
		0.4					SB130_0.3-0.5	0	
		0.6							
		0.8		Fill	FILL - Dark brown silty SAND (fine-medium)	SM	SB130_0.8-1.1	0	
		1							
		1.2							
		1.4		Fill	FILL - Pale grey SAND (fine-medium)	SM	SB130_1.5-1.7	0	
		1.6							
		1.8							
		2							
		2.2		Fill	FILL - Pale grey/white SILT (medium-plasticity), with sand (fines)	SM	SB130_2.2-2.4	0	
		2.4							
		2.6							
		2.8		Fill	FILL - Pale green SILT (medium-plasticity), with sand (fines)	SM	SB130_2.7-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB131

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB131_0.0-0.2	0	
		0.4					SB131_0.3-0.5	0	
		0.6							
		0.8							
		1					SB131_1.0-1.2	0	
		1.2							
		1.4		Fill	FILL - Dark brown silty SAND (fine-medium)	SM	SB131_1.3-1.5	0	
		1.6		Fill	FILL - Pale brown SAND (medium)	SM	SB131_1.5-1.8	0	
		1.8							
		2							
		2.2							
		2.4		Fill	FILL - Pale grey/white SILT (medium-plasticity), with sand (fines)	SM	SB131_2.3-2.5	0	
		2.6							
		2.8		Fill	FILL - Green brown SILT (medium-plasticity), with sand (fines)	SM	SB131_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB132

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Orange brown silty SAND (fine-medium)	SM	SB132_0.0-0.2	0	
		0.4					SB132_0.3-0.6	0	
		0.6		Fill	FILL - Dark black/brown silty SAND (fine-medium), with gravels (fine)	SM	SB132_0.6-0.8	0	
		0.8							
		1		Fill	FILL - Grey brown silty SAND (fine)	SM	SB132_0.9-1.1	0	
		1.2							
		1.4							
		1.6					SB132_1.5-1.8	0	
		1.8							
		2		Fill	FILL - Pale grey SAND (medium)	SM	SB132_2.0-2.3	0	
		2.2							
		2.4							
		2.6							
		2.8		Fill	FILL - Pink/pale grey SILT (low-plasticity)	M	SB132_2.7-3.0	0	
		3			Termination Depth at: 3.00 m.				

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SOIL BOREHOLE SB133

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Pale brown silty SAND (fine-medium)	SM	SB133_0.0-0.2	0	PFAS
		0.4					SB133_0.3-0.5	0	
		0.6							
				Fill	FILL - Dark brown silty SAND (fine-medium), with black gravels	SM	SB133_0.6-0.8	0	
		0.8							
		1					SB133_1.0-1.2	0	
		1.2							
		1.4							
				Fill	FILL - Brown sandy SILT (medium-plasticity)	SM	SB133_1.5-1.7	0	
		1.6							
		1.8							
				Fill	FILL - Pale grey/white SILT (medium-plasticity)	SM	SB133_1.9-2.1	0	
		2							
		2.2							
				Fill	FILL - Pale green SILT (medium-plasticity), with sand (fines)	SM	SB133_2.3-2.5	0	
		2.4							
		2.6							
		2.8					SB133_2.8-3.0	0	SPOCAS
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB163

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB163_0.0-0.2	0	PFAS
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark brown silty SAND (fine-medium)	SM	SB163_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Brown sandy SILT (low-plasticity)	SM	SB163_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB164

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** AJ/JB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - White silty SAND (fine-medium)	SM	SB164_0.0-0.2	0	
		0.55 0.6 0.65 0.7		Fill	FILL - Grey silty SAND (fine-medium)	SM	SB164_0.5-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - Grey silty CLAY (low/medium-plasticity), with sand (fine-medium)	SM	SB164_0.7-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB165

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Dark brown silty sandy CLAY (low-plasticity)	D	SB165_0.0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill	FILL - Pale brown silty sandy CLAY (medium-plasticity), with sand (fine-medium)	SM	SB165_0.3-0.6	0	
		0.65 0.7		Fill	FILL - Pale brown silty SAND (fine-medium)	SM	SB165_0.6-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill	FILL - White silty SAND (fine-medium), gravels (fine-medium)	SM	SB165_0.7-1.0	0	Chalky texture DUP14/SPLIT14
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB166

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill	FILL - Brown silty sandy CLAY (medium-plasticity)	SM	SB166_0.0-0.2	0	PFAS
							SB166_0.3-0.5	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine-medium)	SM	SB166_0.5-0.8	0	
		0.85 0.9 0.95 1		Fill	FILL - White/pale brown sandy SILT (low-plasticity)	M	SB166_0.8-1.0	0	SPOCAS
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB167

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.1		Fill	FILL - Grey brown silty SAND (fine-medium), with trace gravels (fine-medium)	SM	SB167_0-0.2	0	
		0.2							
		0.3					SB167_0.3-0.6	0	
		0.4							
		0.5							
		0.6		Fill	FILL - Pale brown SAND (fine-coarse), with gravels (fine-coarse)	SM	SB167_0.6-0.8	0	
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3		CL-ML	CLAY - Grey brown silty CLAY (low-plasticity), with sand (fine) and trace organics	M	SB167_1.3-1.6	0	Hydrogen sulfide odour
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9		SM	SAND - Dark brown silty SAND (fine)	M	SB167_1.9-2.0	0	Hydrogen sulfide odour
		2							
		2.1			Termination Depth at: 2.00 m.				

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SOIL BOREHOLE SB168

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Brown silty SAND (fine)	SM	SB168_0.0-0.2	0	Inclusions of organics at surface
							SB168_0.3-0.5	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (low-plasticity), with sands (fine-medium)	M	SB168_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB169

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill	FILL - Brown silty SAND (fine-medium), with trace gravels (fine)	SM	SB169_0.0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark brown silty CLAY (high-plasticity), with organics	SM	SB169_0.4-0.6	0	
		0.85 0.9 0.95 1		Fill	FILL - Grey brown silty CLAY (low-plasticity), with organics	M	SB169_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB170

PROJECT NUMBER 64648	**DRILLING COMPANY** N/A	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 25-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIAMETER 75 mm	**LOGGED BY** JA/AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill	FILL - Brown silty CLAY (medium-plasticity), with organics	SM	SB170_0.0-0.2	0	
		0.35 0.4 0.45 0.5		Fill	FILL - Pale brown silty SAND (fine-medium), with organics	SM	SB170_0.3-0.5	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill	FILL - Dark brown/black silty CLAY (high-plasticity), with organics	SM	SB170_0.5-0.7	0	
		0.85 0.9 0.95 1		Fill	FILL - Black/brown mottling silty CLAY (high-plasticity), with organics	SM	SB170_0.8-1.0	0	
		1.05 1.1 1.15			Termination Depth at: 1.00 m.				

SOIL BOREHOLE SB171

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with gravels (fine-medium) and trace red brick fragments	SM	SB171_0-0.2	0	PFAS + SPOCAS
		0.4					SB171_0.3-0.5	0	
		0.6							
		0.8							
		1					SB171_1.0-1.2	0	
		1.2							
		1.4		Fill	FILL - Pale brown clayey SAND (fine-medium)	SM	SB171_1.3-1.5	0	
		1.6		Fill	FILL - Pale grey brown silty SAND (fine-medium), and trace gravels (fine)	D	SB171_1.6-1.8	0	
		1.8							
		2							
		2.2		Fill	FILL - Pale pink brown sandy SILT (low-plasticity)	M	SB171_2.2-2.5	0	DUP31/SPLIT31
		2.4							
		2.6							
		2.8					SB171_2.8-3.0	0.2	
		3			Termination Depth at: 3.00 m.				

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SOIL BOREHOLE SB172

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 29-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown clayey silty SAND (fine-medium), with gravels (fine) and trace red brick fragments	SM	SB172_0-0.2	0	PFAS + SPOCAS
		0.4					SB172_0.3-0.5	0	
		0.6							
		0.8							
		1					SB172_1.0-1.1	0	
		1.2		Fill	FILL - Pale grey silty SAND (fine-coarse)	SM	SB172_1.2-1.5	0	
		1.4							
		1.6							
		1.8							Cotton/fiberous layer
		2		Fill	FILL - Blue grey SILT (medium-plasticity)	M	SB172_1.9-2.1	0	
		2.2							
		2.4							
		2.6					SB172_2.6-2.8	0	
		2.8		SM	SAND - Dark brown silty SAND, with organics	M	SB172_2.8-3.0	0	
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB173

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown silty SAND (fine-medium), with trace gravels (fine)	SM	SB173_0.0-0.2	0	PFAS + SPOCAS
		0.4					SB173_0.4-0.6	0	
		0.6							
		0.8							
		1							
		1.2		Fill	FILL - Dark grey sandy CLAY (low/medium-plasticity)	SM	SB173_1.1-1.3	0	
		1.4							
		1.6							
		1.8		Fill	FILL - Pale grey silty SAND (fine-medium)	SM	SB173_1.8-2.0	0	
		2							
		2.2		Fill	FILL - White-pale blue SILT (low/medium-plasticity), with sand (fine)	SM	SB173_2.1-2.4	0	
		2.4							
		2.6							
		2.8		SM	SAND - Dark brown/black silty SAND (fine-medium), with decayed organics	SM	SB173_2.7-3.0	0	PEAT
		3			Termination Depth at: 3.00 m.				

SOIL BOREHOLE SB174

PROJECT NUMBER 64648	**DRILLING COMPANY** SMS Geotechnical	**EASTING** N/A
PROJECT NAME URPS Osborne ANI Expansion	**DRILLING DATE** 30-May-23	**NORTHING** N/A
CLIENT URPS	**DRILL RIG** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne, South Australia	**DRILLING METHOD** Push Tube	**COORD SOURCE**
	DIAMETER 50 mm	**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.2		Fill	FILL - Brown clayey SAND (fine-medium)	SM	SB174_0.0-0.2	0	PFAS + SPOCAS
		0.4					SB174_0.3-0.6	0	
		0.6							
		0.8							
		1					SB174_1.0-1.2	0	
		1.2							
		1.4		Fill	FILL - Dark red/brown silty SAND (fine-medium), with trace red brick fragments	SM	SB174_1.3-1.5	0	
		1.6		Fill	FILL - Dark grey silty SAND (fine-medium)	SM	SB174_1.5-1.7	0	
		1.8		Fill	FILL - Pale blue green SILT (medium-plasticity), with sand (fines)	SM	SB174_1.7-1.9	0	
		2							
		2.2							
		2.4							
		2.6							
		2.8		SM	SAND - Dark brown silty SAND (fine-medium), with decayed organics	SM	SB174_2.7-3.0	0	PEAT
		3			Termination Depth at: 3.00 m.				

2024 (Area 1)

SOIL BOREHOLE BH01

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Sandy SILT, low plasticity, pale brown, with trace fine-medium gravels	D	BH01/1	0	
		0.35 0.4 0.45 0.5				BH01/2	0.1	
		0.55 0.6 0.65 0.7		Fill - Sandy SILT, low plasticity, white	D	BH01/3	0.4	
		0.75 0.8				BH01/4	0.6	Moderate anoxic odour
		0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.80 m.				

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SOIL BOREHOLE BH02

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Silty Gravelly SAND, fine to medium grained, beige/light brown	SM	BH02/1	0	DUP02/SPLIT02
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Gravelly SAND, coarse grained, white/light brown	SM	BH02/2	0	
						BH02/3	0	
		0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.80 m.				

SOIL BOREHOLE BH03

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Silty SAND, fine to coarse grained, pale brown, with some fine-medium gravels and trace cobbles	SM	BH03/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill - Gravelly Silty SAND, fine to coarse grained, brown, with some black gravels	SM	BH03/2_0.4-0.6	0	
		0.8 0.85 0.9 0.95		Fill - Silty SAND, fine to coarse grained, pale grey	SM	BH03/3_0.8-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH04

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.90 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to medium grained, beige/light brown	SM	BH04/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Sandy Gravelly CLAY, high plasticity, brown/orange with grey mottling	SM	BH04/2	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill - Clayey SAND, fine to medium grained, grey brown, with some medium gravels	M	BH04/3	0	
						BH04/4	0	
		0.95 1 1.05 1.1 1.15		Termination Depth at:0.90 m.				

SOIL BOREHOLE BH05

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to medium grained, grey brown, with trace coarse gravels	D	BH05/1	0	Organic fibres
		0.35 0.4		Fill - Silty SAND, fine to medium grained, dark yellow brown, with some fine-medium gravels, and trace coarse gravels	SM	BH05/2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty SAND, fine to medium grained, white	SM	BH05/3	0	Moderate anoxic odour
						BH05/4	0	
		0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.80 m.				

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SOIL BOREHOLE BH06

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35		Fill - Gravelly SAND, fine to coarse grained, dark grey, with some trace cobbles and red brick fragments	SM	BH06/1_0-0.3	0	
		0.4 0.45 0.5 0.55 0.6 0.65		Fill - Silty SAND, fine to coarse grained, pale grey, with trace shells and fine gravels	SM	BH06/2_0.4-0.6	0	
		0.7 0.75 0.8 0.85 0.9 0.95		Fill - Clayey Sandy SILT, low plasticity, grey	SM	BH06/3_0.7-1.0	0	chalky texture
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH07

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH07/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, medium to coarse grained, yellow brown, with some clay fines	D	BH07/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, pale grey, with trace shells	D	BH07/3_0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH08

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	SM	BH08/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with some red brick fragments and trace cobbles	SM	BH08/2_0.3-0.5 BH08/3_0.8-1.0	0 0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH09

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	SM	BH09/1	0	
		0.35 0.4 0.45 0.5		Fill - Clayey Gravelly SAND, fine to coarse grained, grey brown	D	BH09/2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill - Gravelly SAND, fine to coarse grained, brown	D	BH09/3	0	
		0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, pale grey	D	BH09/4_0.8-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH10

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.50 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	SM	BH10/1	0	
		0.35 0.4 0.45		Fill - Gravelly SAND, fine to coarse grained, red brown, with some trace cobbles, with some red brick fragments	SM	BH10/2_0.3-0.45	0	
		0.5		Limestone, tan	SM	BH10/3	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.50 m.				

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SOIL BOREHOLE BH11

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Silty SAND, fine to medium grained, light grey/beige, with some coarse gravels	SM	BH11/1	0	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill - Silty SAND, fine to medium grained, brown/beige, with some coarse-medium gravels	SM	BH11/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Sandy CLAY, low plasticity, brown, with some coarse gravels	SM	BH11/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH12

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey, with trace cobbles	SM	BH12/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with trace black gravels and red brick fragments		BH12/2_0.3-0.5	0	DUP12/SPLIT12
						BH12/3	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH13

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH13/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to coarse grained, brown, with some red brick fragments	D	BH13/2_0.3-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, pale grey, with trace shells	D	BH13/3_0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH14

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH14/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to coarse grained, pale brown	D	BH14/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to medium grained, brown	D	BH14/3_0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH15

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH15/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Gravelly SAND, fine to coarse grained, brown, with some red brick fragments	D	BH15/2_0.3-0.5	0	DUP13/SPLIT13
						BH15/3	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH16

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH16/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with some red brick fragments	D	BH16/2_0.3-0.5 BH16/3	0 0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH17

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH17/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Clayey Gravelly SAND, fine to coarse grained, brown, with some red brick fragments	D	BH17/2_0.3-0.5	0	
						BH17/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH18

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Clayey Gravelly SAND, fine to coarse grained, brown	M	BH18/1_0-0.3	0	DUP11/SPLIT11
		0.35 0.4						
		0.45 0.5 0.55 0.6		Fill - Silty SAND, fine to medium grained, pale brown	SM	BH18/2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty SAND, fine to coarse grained, pale grey/brown, with trace shells and fine gravels	SM	BH18/3_0.6-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH19

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Silty SAND, fine to medium grained, pale brown	M	BH19/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, pale grey	SM	BH19/2_0.3-0.5 BH19/3_0.8-1.0	0 0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH20

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.90 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill - Sandy GRAVEL, fine to coarse grained, grey	D	BH20/1	0	DUP03/SPLIT03
				Fill - Sandy GRAVEL, fine to coarse grained, yellow brown, with trace cobbles	D	BH20/2	0	
				Fill - Gravelly SAND, fine to coarse grained, yellow brown	D	BH20/3	0	
						BH20/4	0	
		0.95 1 1.05 1.1 1.15		Termination Depth at:0.90 m.				

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SOIL BOREHOLE BH21

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Silty Gravelly SAND, fine to coarse grained, pale brown	SM	BH21/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Clayey SAND, fine to coarse grained, brown	SM	BH21/2_0.2-0.5	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, pale grey/brown	SM	BH21/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH22

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to medium grained, yellow brown	M	BH22/1_0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill - Clayey SAND, fine to coarse grained, brown	SM	BH22/2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to medium grained, brown	D	BH22/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH23

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH23/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with trace red brick fragments and black gravels	SM	BH23/2_0.3-0.5 BH23/3_0.7-1.0	0 0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH24

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Silty SAND, fine to medium grained, pale brown, with some fine-medium gravels	SM	BH24/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill - Clayey SAND, fine to medium grained, pale brown	SM	BH24/2_0.2-0.4	0	
		0.65 0.7		Fill - Silty SAND, fine to coarse grained, pale grey	SM	BH24/3	0	
		0.75 0.8		Fill - Gravelly Silty SAND, fine to coarse grained, brown	SM	BH24/4	0	
		0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.80 m.				

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SOIL BOREHOLE BH25

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	SM	BH25/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to medium grained, brown, with trace red brick fragments	SM	BH25/2_0.3-0.8	0	
						BH25/3_0.7-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH26

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.60 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Sandy GRAVEL, fine to medium grained, grey, with trace coarse gravels	D	BH26/1	0	
						BH26/2	0	
		0.45 0.5 0.55 0.6		Fill - Sandy GRAVEL, fine to coarse grained, yellow/brown	D	BH26/3	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.60 m.				

SOIL BOREHOLE BH27

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH27/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with trace coarse gravels	D	BH27/2 BH27/3	0 0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH28

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill - Clayey Gravelly SAND, fine to coarse grained, dark brown	SM	BH28/1_0-0.3	0	
						BH28/2_0.5-0.8	0	
		0.8 0.85 0.9 0.95		Fill - Silty Gravelly SAND, fine to medium grained, brown, with some bitumen and red brick fragments and gravels and trace wood	D	BH28/3	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH29

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6		Fill - Sandy GRAVEL, fine to coarse grained, grey brown	D	BH29/1 BH29/2 BH29/3	0 0 0	Inclusions of gravel, red brick and concrete fragments
		0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Gravelly SAND, fine to coarse grained, brown	D	BH29/4	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH30

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, grey, with some cobbles	D	BH30/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill - Gravelly SAND, fine to coarse grained, pale grey/brown, with trace red brick fragments	D	BH30/2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to coarse grained, dark grey	D	BH30/3_0.6-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH31

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.90 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Sandy GRAVEL, fine to coarse grained, grey, with trace cobbles	D	BH31/1	0	DUP01/SPLIT01
		0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to medium grained, dark yellow brown, with trace cobbles	D	BH31/2	0	
		0.75 0.8 0.85 0.9		Fill - Gravelly SAND, fine grained, yellow brown, with trace coarse gravels	D	BH31/3	0	
		0.95 1 1.05 1.1 1.15		Termination Depth at:0.90 m.				

SOIL BOREHOLE BH32

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.60 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Silty Gravelly SAND, fine to medium grained, brown/grey	SM	BH32/1	0	
		0.45 0.5 0.55 0.6		Fill - Gravelly SAND, fine to medium grained, brown/grey	SM	BH32/2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.60 m.				

SOIL BOREHOLE BH33

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05		Fill - Silty SAND, fine to medium grained, dark brown	M	BH33/1	0	
		0.1		Fill - Gravelly Silty SAND, fine to medium grained, dark yellow brown, with some clay fines and trace coarse gravels	M	BH33/2	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4						
		0.45						
		0.5				BH33/3	0	
		0.55						
		0.6						
		0.65						
		0.7						
		0.75						
		0.8				BH33/4	0	
		0.85						
		0.9						
		0.95						
		1						
		1.05		Termination Depth at:1.00 m.				
		1.1						
		1.15						

SOIL BOREHOLE BH34

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill - Gravelly SAND, fine to medium grained, brown/grey	SM	BH34/1	0	
		0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to medium grained, grey brown/black	SM	BH34/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Sandy CLAY, low plasticity, brown/orange with black sands	SM	BH34/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH35

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5		Fill - Gravelly SAND, fine to medium grained, dark grey/brown, with trace coarse gravels	D	BH35/1 BH35/2	0 0	
		0.55 0.6 0.65 0.7 0.75 0.8		SW - SAND, fine to medium grained, white with dark grey brown, with trace fine-medium gravels	SM	BH35/3	0	
		0.85 0.9 0.95 1		SW - SAND, fine to medium grained, white, with some cobble	SM	BH35/4	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH36

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 22 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to medium grained, beige	SM	BH36/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Silty Gravelly SAND, fine to medium grained, beige/brown, with some organics	SM	BH36/2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill - Sandy CLAY, low plasticity, brown/grey, with some fine silts	M	BH36/3	0	
		0.85 0.9 0.95 1		Fill - Clayey Gravelly SAND, fine to coarse grained, beige/grey	M	BH36/4	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH46

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** N/A	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 29 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen, black				
		0.1		Fill - Gravelly SAND, fine to coarse grained, grey	D	BH46/1_0.05-0.3	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4		Fill - Gravelly SAND, fine to coarse grained, pale brown	D	BH46/2	0	
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7						
		0.75						
		0.8						
		0.85						
		0.9		Fill - Silty SAND, fine to coarse grained, grey brown, with some fine gravels and trace red brick fragments	D	BH46/3_0.9-1.0	0	
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

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SOIL BOREHOLE BH50

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to medium grained, grey brown, with trace red brick fragments	SM	BH50/1_0-0.3	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Silty SAND, fine to medium grained, pale grey, with trace fine-medium gravels	SM	BH50/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to medium grained, grey brown	SM	BH50/3_0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH51

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, light brown, with some red brick fragments	SM	BH51/1 - 0-0.2	0.1	DUP07/SPLIT07
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill - Silty Gravelly SAND, fine to medium grained, grey brown	SM	BH51/2	0	
		0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty SAND, fine to medium grained, brown	SM	BH51/3	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH52

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, light brown, with some red brick fragments	SM	BH52/1 - 0-0.2	0.1	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill - Silty Gravelly SAND, fine to medium grained, grey brown, with some black fine gravels	SM	BH52/2	0.1	
		0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, brown	SM	BH52/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH53

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to medium grained, brown, with some red brick fragments and trace silt fines	M	BH53/1 - 0-0.2	0.1	Domestic waste at surface (plastics)
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Silty SAND, fine to medium grained, grey brown	M	BH53/2	0	
		0.55 0.6 0.65 0.7		Fill - Silty SAND, fine to medium grained, dark grey brown, with some large ash/cinders	SM	BH53/3 - 0.5-0.7	0.8	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to coarse grained, grey brown	SM	BH53/4	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH54

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Clayey Gravelly SAND, fine to coarse grained, grey brown/brown, with some red brick fragments and trace cobbles	SM	BH54/1 - 0-0.2	0	Domestic waste at surface (plastics)
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty Gravelly SAND, fine to medium grained, grey brown, with some black gravels	SM	BH54/2 - 0.4-0.6	0	
		0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, dark brown	SM	BH54/3 - 0.8-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH55

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, pale brown, with some red brick fragments and trace cobbles	SM	BH55/1 - 0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9		Fill - Silty SAND, fine to medium grained, brown, with trace fine gravels	SM	BH55/2	0	
		0.95		Fill - Clayey Gravelly SAND, fine to coarse grained, grey brown	M	BH55/3 - 0.9-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH56

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Silty Gravelly SAND, fine to medium grained, grey brown, with some red brick fragments	SM	BH56/1 - 0-0.2	0	Domestic waste at surface (plastics)
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to coarse grained, light brown	D	BH56/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Clayey SAND, fine to medium grained, pale brown/grey brown, with some low plasticity clay	D	BH56/3 - 0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH57

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25		Fill - Gravelly SAND, fine to coarse grained, grey brown, with some red brick fragments and trace cobbles and gravels	SM	BH57/1 - 0-0.2	0	DUP08/SPLIT08
		0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill - Gravelly SAND, fine to coarse grained, grey	M	BH57/2	0	
		0.8 0.85 0.9 0.95		Fill - Silty SAND, fine to medium grained, brown, with some fine-medium gravels	SM	BH57/3 - 0.8-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH58

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen, black				
		0.1		Fill - Gravelly SAND, fine to coarse grained, brown	SM	BH58/1_0.05-0.2	0	
		0.15						
		0.2						
		0.25						
		0.3		Fill - Clayey SAND, fine to medium grained, brown	SM	BH58/2_0.3-0.5	0	
		0.35						
		0.4						
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7		Fill - Silty SAND, fine to medium grained, yellow brown	SM	BH58/3_0.7-1.0	0	
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

SOIL BOREHOLE BH59

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 14 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Fill - Organic PEAT, black				
		0.1		Fill - Gravelly SAND, fine to coarse grained, pale brown, with trace cobble	D	BH59/1_0.05-0.3	0	aggregate cobble at 0.3
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4		Fill - Silty SAND, fine to medium grained, pale brown	D	BH59/2	0	
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7		Fill - Silty SAND, fine to coarse grained, pale grey/white	D	BH59/3_0.7-1.0	0	
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

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SOIL BOREHOLE BH60

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 14 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen, black				
		0.1		Fill - Gravelly SAND, fine to coarse grained, dark grey	SM	BH60/1_0.1-0.3	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4						
		0.45						
		0.5				BH60/2	0	
		0.55						
		0.6						
		0.65		Fill - Silty Gravelly SAND, fine to coarse grained, yellow brown	SM	BH60/3_0.65-1.0	0	
		0.7						
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

SOIL BOREHOLE BH61

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen				
		0.1		Fill - Gravelly SAND, fine to coarse grained, light brown, with some red brick fragments	SM	BH61/1 - 0.05-0.3	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4		Fill - Silty SAND, fine to coarse grained, brown, with some low plasticity clay	SM	BH61/2	0	
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7						
		0.75						
		0.8		Fill - Gravelly Clayey SAND, fine to coarse grained, grey brown	SM	BH61/3	0.1	
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

SOIL BOREHOLE BH62

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Fill - GRAVEL, medium grained, brown/grey	D			
		0.1		Fill - Silty Gravelly SAND, fine to coarse grained, brown, with some slag and gravels, and trace red brick fragments	SM	BH62/1_0.05-0.2	0	
		0.15						
		0.2						
		0.25						
		0.3				BH62/2	0	
		0.35						
		0.4						
		0.45						
		0.5						
		0.55						
		0.6		Fill - Clayey Silty SAND, fine to medium grained, pale brown, with trace fine gravels	SM	BH62/3	0	
		0.65						
		0.7						
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

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SOIL BOREHOLE BH63

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen				
		0.1		Fill - Gravelly SAND, fine to coarse grained, light brown	SM			
		0.15		Fill - Gravelly SAND, fine to coarse grained, red brown, with some red brick fragments	SM	BH63/1 - 0.1-0.3	0	
		0.2						
		0.25						
		0.3						
		0.35						
		0.4		Fill - Silty SAND, fine to coarse grained, pale yellow	SM	BH63/2	0	"Penrice" Fill
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7		Fill - Clayey SAND, fine to coarse grained, light brown	SM	BH63/3 - 0.7-1.0	0	
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

SOIL BOREHOLE BH64

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Gravelly SAND, fine to coarse grained, black, with some trace glass and red brick fragments	D			
		0.1		Fill - Sandy GRAVEL, fine to coarse grained, grey	SM	BH64/1 - 0-0.3	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4		Fill - Silty SAND, fine to coarse grained, pale yellow	SM	BH64/2 - 0.4-0.6		Penrice" Fill
		0.45						
		0.5		Fill - Gravelly SAND, fine to coarse grained, yellow brown	SM	BH64/2	0	
		0.55						
		0.6						
		0.65						
		0.7		Fill - Clayey SAND, fine to coarse grained, pale brown	SM			
		0.75						
		0.8		Fill - Silty SAND, fine to medium grained, pale brown, with some fine-medium gravels	SM	BH64/3	0	
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

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SOIL BOREHOLE BH66

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT				Bitumen	D			
		0.05		Fill - Clayey Gravelly SAND, fine to coarse grained, brown, with trace red brick fragments	SM	BH66/1_0.05-0.3	0	
		0.1						
		0.15						
		0.2						
		0.25						
		0.3		Fill - Silty SAND, fine to medium grained, pale brown, with some fine-medium gravels	SM	BH66/2	0	
		0.35						
		0.4						
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7				BH66/3_0.7-1.0	0	
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

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SOIL BOREHOLE BH67

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to coarse grained, brown	SM	BH67/1_0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Silty SAND, fine to medium grained, pale brown	SM	BH67/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Clayey Silty SAND, fine to medium grained, tan	SM	BH67/3_0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH70

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 13 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Bitumen, black				
		0.1		Fill - Gravelly SAND, fine to coarse grained, yellow brown, roadbase	SM	BH70/1	0	
		0.2		Fill - Clayey SAND, fine to coarse grained, brown/red brown, with trace cinders and red brick fragments	SM	BH70/2_0.2-0.5	0	
		0.5						
		0.7		Fill - Silty SAND, fine to medium grained, dark grey	SM	BH70/3	0	
		0.8		Fill - Clayey Gravelly SAND, fine to medium grained, grey	SM	BH70/4_0.8-1.0	0	
		1		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH71

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to coarse grained, light brown	SM	BH71/1 - 0-0.2	0.1	
		0.25 0.3 0.35 0.4 0.45 0.5 0.55		Fill - Silty SAND, fine to medium grained, brown	SM	BH71/2	0	
		0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Fill - Gravelly Silty SAND, fine to coarse grained, light brown	M	BH71/3	0	quartz gravels
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH72

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, brown	SM	BH72/1 - 0-0.2	0.1	
		0.35 0.4 0.45 0.5		Fill - Silty SAND, fine to coarse grained, pale grey brown, with some fine-medium gravels	SM	BH72/2	0	
		0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, brown, with trace low plasticity clay	SM	BH72/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH73

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, coarse grained, brown/orange brown	SM	BH73/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill - Gravelly SAND, coarse grained, grey brown	SM	BH73/2	0	Inclusions of bitumen fragments and ash
		0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Gravelly SAND, coarse grained, grey	SM	BH73/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH74

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, medium to coarse grained, dark yellow brown	SM	BH74/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Gravelly SAND, fine to medium grained, grey brown	SM	BH74/2	0	
		0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, grey brown, with some cinders/ashes and trace wood fragments	SM	BH74/3	0.1	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH75

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, coarse grained, orange brown	SM	BH75/1	1.1	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill - Gravelly SAND, fine to medium orange brown, grey brown	SM	BH75/2	0	
		0.65 0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, brown, with some high plasticity clay and white cobbles	SM	BH75/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH76

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, yellow brown, with trace cobbles	SM	BH76/1 - 0-0.2	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty SAND, fine to coarse grained, grey brown	SM	BH76/2 - 0.3-0.5	0	
		0.85 0.9 0.95 1		Fill - Clayey Silty SAND, fine to coarse grained, brown, with some low plasticity clay	SM	BH76/3 - 0.8-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH79

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Gravelly SAND, fine to coarse grained, yellow brown, with trace cobbles	SM	BH79/1 - 0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty SAND, fine to medium grained, brown	SM	BH79/2 - 0.4-0.6	0	DUP09/SPLIT09
		0.85 0.9 0.95 1		Fill - Clayey Silty SAND, fine to coarse grained, grey brown	SM	BH79/3 - 0.8-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH80

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Gravelly SAND, fine to coarse grained, pale brown	SM	BH80/1 - 0-0.2	0	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill - Clayey SAND, fine to medium grained, brown	SM	BH80/2 - 0.4-0.6	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to medium grained, grey	M	BH80/3 - 0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH81

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to coarse grained, brown	SM	BH81/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to medium grained, grey brown, with some silt fines	SM	BH81/2	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, dark grey, with some medium gravels	M	BH81/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH82

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.90 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, fine to medium grained, orange brown	SM	BH82/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6		Fill - Gravelly SAND, fine to medium grained, grey brown,	SM	BH82/2	0	Inclusions of bitumen fragments, ash and cinders
		0.65 0.7 0.75 0.8 0.85 0.9		Fill - Gravelly SAND, medium grained, dark grey	M	BH82/3	0	
		0.95 1 1.05 1.1 1.15		Termination Depth at:0.90 m.				

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SOIL BOREHOLE BH83

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** N/A	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 29 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, coarse grained, beige/brown	SM	BH83/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Gravelly SAND, coarse grained, brown, with trace shells	SM	BH83/2	0	
		0.55 0.6 0.65 0.7		Fill - Clayey Gravelly SAND, coarse grained, brown	SM	BH83/3	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - SAND, coarse grained, grey brown	SM	BH83/4_0.7-1	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH84

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 0.80 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3 0.35		Fill - Gravelly SAND, fine to medium grained, orange brown	SM	BH84/1	0	DUP04/SPLIT04
		0.4 0.45 0.5 0.55 0.6		Fill - Silty Gravelly SAND, fine to medium grained, brown	SM	BH84/2	0	
		0.65 0.7 0.75 0.8		Fill - Gravelly SAND, fine to medium grained, grey brown	SM	BH84/3	0	
		0.85 0.9 0.95 1 1.05 1.1 1.15		Termination Depth at:0.80 m.				

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SOIL BOREHOLE BH85

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Sandy GRAVEL, medium to coarse grained, yellow brown	SM	BH85/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill - Clayey SAND, fine to coarse grained, dark yellow brown, fine gravels	SM	BH85/2	0	
		0.7 0.75 0.8 0.85 0.9 0.95 1		Fill - Gravelly SAND, fine to coarse grained, dark grey, with some silts fine	SM	BH85/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

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SOIL BOREHOLE BH86

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to coarse grained, grey brown, with trace red brick fragments and tiles	SM	BH86/1 - 0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Gravelly SAND, fine to medium grained, brown	SM	BH86/2	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty SAND, fine grained, grey	D	BH86/3	0	
		0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, pale yellow	D	BH86/4	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

produced by ESlog.ESdat.net on 30 Jun 2024

SOIL BOREHOLE BH87

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to coarse grained, grey brown	D	BH87/1 - 0-0.2	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Gravelly SAND, fine to medium grained, brown, with trace red brick fragments and tiles	SM	BH87/2 - 0.2-0.5	0	
		0.55 0.6 0.65 0.7 0.75 0.8		Fill - Silty Gravelly SAND, fine grained, grey, with some cinders and red brick fragments	SM	BH87/3	0	
		0.85 0.9 0.95 1		Fill - Silty SAND, fine to medium grained, pale grey	SM	BH87/4	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

produced by ESlog.ESdat.net on 30 Jun 2024

SOIL BOREHOLE BH88

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2		Fill - Gravelly SAND, fine to coarse grained, pale brown, with trace red brick fragments	D	BH88/1	0	
		0.25 0.3 0.35 0.4 0.45 0.5		Fill - Clayey SAND, fine to medium grained, brown	SM	BH88/2	0	
		0.55 0.6 0.65 0.7		Fill - Gravelly SAND, fine to medium grained, yellow brown, with some slag and coarse gravels	SM	BH88/3 - 0.5-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty SAND, fine grained, pale grey, with some shells	SM	BH88/4 - 0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

produced by ESlog.ESdat.net on 01 Jul 2024

SOIL BOREHOLE BH89

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1		Fill - Gravelly SAND, fine to coarse grained, pale brown, with trace red brick fragments	D	BH89/1 - 0-0.1	0	
		0.15 0.2 0.25 0.3 0.35 0.4 0.45		Fill - Sandy CLAY, low plasticity, fine to medium grained, brown, with trace fine gravels	SM	BH89/2 - 0.1-0.3	0	
		0.5 0.55 0.6 0.65		Fill - Gravelly SAND, fine to coarse grained, brown, with some low plasticity clay	SM	BH89/3 - 0.5-0.7	0	black gravel and cinders
		0.7 0.75 0.8 0.85 0.9 0.95		Fill - Silty SAND, fine grained, grey, with trace shells	D	BH89/4 - 0.7-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

produced by ESlog.ESdat.net on 30 Jun 2024

SOIL BOREHOLE BH90

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05		Fill - Gravelly SAND, fine to coarse grained, pale brown, with trace red brick fragments	D	BH90/1	0	
		0.1		Fill - Silty Gravelly SAND, fine to medium grained, brown	SM	BH90/2	0	
		0.15						
		0.2						
		0.25						
		0.3						
		0.35						
		0.4						
		0.45						
		0.5						
		0.55						
		0.6						
		0.65						
		0.7		Fill - Silty SAND, fine grained, grey, with trace shells	SM	BH90/3 - 0.7-1.0	0	
		0.75						
		0.8						
		0.85						
		0.9						
		0.95						
		1		Termination Depth at:1.00 m.				
		1.05						
		1.1						
		1.15						

produced by ESlog.ESdat.net on 30 Jun 2024

SOIL BOREHOLE BH91

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25		Fill - Gravelly SAND, fine to coarse grained, pale brown, with trace cobbles	D	BH91/1 - 0-0.2	0	
		0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75		Fill - Clayey SAND, fine to medium grained, brown	SM	BH91/2	0	
		0.8 0.85 0.9 0.95		Fill - Silty SAND, fine to medium grained, brown	SM	BH91/3 - 0.8-1.0	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH92

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25		Fill - Gravelly SAND, fine to medium grained, yellow brown	SM	BH92/1 - 0-0.2	0	DUP10/SPLIT10
		0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65		Fill - Silty SAND, fine to medium grained, brown	SM	BH92/2	0	
		0.7 0.75 0.8 0.85 0.9 0.95		Fill - Clayey Silty SAND, fine to medium grained, brown	SM	BH92/3	0	
		1 1.05 1.1 1.15		Termination Depth at:1.00 m.				

produced by ESlog.ESdat.net on 30 Jun 2024

SOIL BOREHOLE BH93

PROJECT NUMBER 67064	**DRILLING COMPANY** N/A	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Hand Auger	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Hand Auger	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 23 May 2024		**LOGGED BY** AB

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.05 0.1 0.15 0.2 0.25 0.3		Fill - Gravelly SAND, coarse grained, brown/orange brown	SM	BH93/1	0	
		0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8		Fill - Gravelly SAND, coarse grained, brown, with some cinders	SM	BH93/2	0	Inclusions of bitumen fragments and ash
		0.85 0.9 0.95 1		Fill - Gravelly SAND, coarse grained, grey brown,	SM	BH93/3	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

SOIL BOREHOLE BH94

PROJECT NUMBER 67064	**DRILLING COMPANY** GeoDrill	**EASTING**
PROJECT NAME NPSCY EIS	**DRILL RIG** Geoprobe	**NORTHING**
CLIENT URPS	**DRILLING METHOD** Push Tube	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**DIAMETER** 50 mm	**TOTAL DEPTH** 1.00 m bgl
DRILLING DATE 12 Jun 2024		**LOGGED BY** JA

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
PT		0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4		Fill - Gravelly SAND, fine to coarse grained, yellow brown	SM	BH94/1 - 0-0.2	0.1	
		0.45 0.5 0.55 0.6 0.65 0.7		Fill - Silty SAND, fine to medium grained, brown	SM	BH94/2 - 0.4-0.7	0	
		0.75 0.8 0.85 0.9 0.95 1		Fill - Silty Gravelly SAND, fine to coarse grained, grey	SM	BH94/3 - 0.7-1.0	0	
		1.05 1.1 1.15		Termination Depth at:1.00 m.				

Appendix E Calibration Records

2023 (Area 2 and 3)

CALIBRATION RECORD

Project Number	64647	Site/Client	VRPS Osborne		
Equipment ID	WQM	TPS 90FLT T504541 ☐	YSI-1 17B100728 ☐	YSI-2 17C102196 ☐	Hire ☐
	PID	Tiger T-109753 ☐	MiniRae 2000 110-011979 ☑	Hire ☐	

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol[n]			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐ Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.0	~~0.0~~ 0.0	100ppm Isobutylene	153	99.4

Battery check ☐

Lot/Cyl number: 245571 / 1365041

Expiry: Apr 2024

Action required

CHECKED BY: Jack Ayers DATE: 22/5/23

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	64648	Site/Client	Osborne			
Equipment ID	WQM	TPS 90FLT T504541 ☐	YSI-1 17B100728 ☐	YSI-2 17C102196 ☐	Hire ☐	
	PID	Tiger T-109753 ☐	MiniRae 2000 110-011979 ☑	Hire ☐		

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol^n			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐

Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.0	0.0	100ppm Isobutylene	106.1	100.7

Lot/Cyl number: 24 3571 / 1365041

Expiry: 4/2024.

Battery check ☑

Action required

CHECKED BY: Joel Bowes DATE: 29/5/23

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	64648	Site/Client	Osborne UR PS		
Equipment ID	WQM	TPS 90FLT T504541 ☐	YSI-1 17B100728 ☐	YSI-2 17C102196 ☐	Hire ☐
	PID	Tiger T-109753 ☑	MiniRae 2000 110-011979 ☐	Hire ☐	

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol*			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐ Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	6.0	0.0	100ppm Isobutylene	102.6	99.8

Lot/Cyl number: 28099 / Y153114

Expiry: 6/26

Battery check ☑

Action required: None

CHECKED BY: JB DATE: 22/6/23

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*±0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*±0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	64648	Site/Client	Osborne URPS			
Equipment ID	WQM	TPS 90FLT T504541 ☐	YSI-1 17B100728 ☐	YSI-2 17C102196 ☐	Hire ☐	
	PID	Tiger T-109753 ☑	MiniRae 2000 110-011979 ☐	Hire ☐		

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol[n]			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐

Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.2	0.0	100ppm Isobutylene	101.7	100.9

Lot/Cyl number: 2X0991 / VIS3114

Expiry: 6/26

Battery check ☑

Action required N/A

CHECKED BY: JB DATE: 28/6/2023

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

2024 (Area 1)

CALIBRATION RECORD

JBS&G

Project Number	67064	Site/Client	URPS Osborne		
Equipment ID	WQM	TPS 90FLT T504541 ☐	☐	☐	Hire ☐
	PID	Tiger T-109753 ☑	MiniRae 2000 110-011979 ☑	Hire ☐	

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol*			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐ Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
TIGER	Zero in air	0.1	0.0	100ppm Isobutylene	100.3	100.1
MINIRAE		0.0	0.0		104.6	100.0

Lot/Cyl number: 284891/1449434

Battery check ☑ Expiry: Dec 2026

Action required

CHECKED BY: JA DATE: 21/5/24

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	67064	Site/Client	URPS Osborne.			
Equipment ID	WQM	TPS 90FLT T504541 ☐	☐	☐	Hire ☐	
	PID	Tiger T-109753 ☑	MiniRae 2000 110-011979 ☑	Hire ☐		

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol*			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐ Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.1	0.0	100ppm Isobutylene	98.6	100.0

Lot/Cyl number: 284811 144434

Expiry: 12/26

Battery check ☑

Action required N/A

CHECKED BY: JB DATE: 29/5/24

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	67064	Site/Client	URPS Osborne			
Equipment ID	WQM	TPS 90FLT T504541 ☐	☐	☐	Hire ☐	
	PID	Tiger T-109753 ☐	MiniRae 2000 110-011979 ☑	Hire ☐		

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol*			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐ Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.0	0.0	100ppm Isobutylene	99.6	100.1

Lot/Cyl number: 288391144 9434

Expiry: Dec 2026

Battery check ☐

Action required

CHECKED BY: Jade Ayers DATE: 6/6/24

SIGNED: Ayers

Acceptable Meter Tolerance (calibration not required)

pH	*±0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

CALIBRATION RECORD

Project Number	67064	Site/Client	VRPS Osborne			
Equipment ID	WQM	TPS 90FLT TS04541 ☐	☐	☐	Hire ☐	
	PID	Tiger T-109753 ☐	MiniRae 2000 110-011979 ☑	Hire ☐		

Water Quality Meter

	Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Temperature (°C)	Compare against mercury thermometer					
Dissolved Oxygen (%)	100% saturation			Zero (0%)		
pH	pH 7.00			pH 4.00		
Conductivity (EC - mS/cm)	2.76 mS/cm			12.88 mS/cm		
Redox (ORP - mV)	229mV Zobell's sol*			Temp for Zobell value		

Electrodes cleaned gently with dishwashing detergent on cotton tip ☐

Battery check (TPS min 7.2V, YSI >50%) ☐

Spare batteries in YSI case (2x "C" size) ☐

Photoionisation Detector

Calibration standard	Pre-calibration value	Calibrated value	Calibration standard	Pre-calibration value	Calibrated value
Zero in air	0.0	0.0	100ppm Isobutylene	109.3	100.2

Lot/Cyl number: 284891/1449434

Expiry: Dec 2026

Battery check ☑

Action required

CHECKED BY: Jack Ayers DATE: 12/8/24

SIGNED:

Acceptable Meter Tolerance (calibration not required)

pH	*± 0.1 pH unit*
Conductivity	*±2%*
Redox (ORP)	*±10%*
Temperature	*± 0.5°C*
Dissolved Oxygen Zero	*±0.1ppm*
Dissolved Oxygen Saturation	±0.5%

* Calibration solution traceability information is available upon request.

Temperature, C	Zobell Solution Value, mV vs. Ag/AgCl (4 M KCl)
-5	267.0
0	260.5
5	254.0
10	247.5
15	241.0
20	234.5
25	228.0
30	221.5
35	215.0
40	208.5
45	202.0
50	195.5

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 18G103116

airmet
Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0 ppm		407802	0 ppm
2. Conductivity		2760 uS/cm		406852	2760 uS/cm
3. pH7		pH 7.01		394391	pH 7.01
4. pH4		pH 4.00		396889	pH 4.00
5. ORP mV		239.72		406331/398193	240.16
7. Temp °C		17.4		Multimeter	17.2

Calibrated by: Jaspher Olanio

Calibration date: 13-Jun-24

Next calibration due: 10-Dec-24

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 11C100754

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0 ppm		407802	0 ppm
2. Conductivity		2760 uS/cm @ 25 °C		420141	2760 uS/cm
3. pH7		pH 7.00		413995	7.00
4. pH4		pH 4.00		414104	4.00
5. ORP mV		237.52		406331/398193	237.96
7. Temp °C		18.4		Multi-Therm	18.2

Calibrated by: **Jaspher Olanio**

Calibration date: **11-Jun-24**

Next calibration due: **8-Dec-24**

Appendix F Quality Assurance / Quality Control

2023 (Area 2 and 3)

E.1 Data Quality Indicators (2023)

Specific data quality indicator (DQI) limits were adopted in accordance with the ASC NEPM (NEPC 2013) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data was assessed against appropriate DQIs established in relation to precision, accuracy, representativeness, comparability and completeness and sensitivity (PARCCS parameters), as follows:

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples;
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards;
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy;
- **Comparability** – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples, ensuring analysing laboratories use consistent analysis techniques and reporting methods;
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study; and
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting.

The DQIs adopted as part of the assessment are summarised in **Table E.1**.

Table E.1: Summary of Data Quality Indicators

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Intra-laboratory duplicate samples	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Inter-laboratory split samples	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Laboratory duplicates[#1]	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Accuracy		
Method blanks	1 per lab batch	Less than the laboratory limit of reporting (<LOR)
Laboratory control samples	1 per lab batch	70-130% or as nominated in the laboratory's QC report
Matrix spikes	1 per lab batch	70-130% or as nominated in the laboratory's QC report
Representativeness		
Sampling appropriate for media and analytes	-	-[#2]
Samples extracted and analysed within holding times	All samples	Samples extracted and analysed within analysis specific holding times
Rinsate samples	1 per day of site work where reusable equipment is used	<LOR
Field blanks	1 per day of site work where samples are analysed for PFAS	<LOR
Laboratory blanks	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection and handling	All samples	Samples collected in accordance with relevant procedure[#2]
Standard analytical methods used for all analyses	All samples	• All samples analysed by a laboratory that is NATA accredited for the analyses performed • Primary laboratory to be consistent for all samples with the exception of inter-laboratory split samples
Consistent field conditions, sampling staff and laboratory analysis	All samples	-[#2]
Limits of reporting appropriate and consistent	All samples	Laboratory LOR is below adopted guideline values and allows relevant

Data Quality Objectives	Frequency	Data Quality Indicator
		comparability between results where more than one laboratory is used (i.e. for analysis of inter-laboratory split samples)
Completeness		
Sample description and COCs completed and appropriate	All samples	-[#2]
Appropriate documentation	All samples	-[#2]
Satisfactory frequency and result for QC samples	All QA/QC samples	As detailed above
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	Laboratory LOR is below adopted guideline values

Notes:

#1: Duplicate sample analysis performed by the laboratory as part of their internal QA/QC program for the data.

#2: A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

E.2 Soil Investigation Data Quality Assessment (2023)

Table E.2 summarises the QA/QC activities undertaken to ensure integrity of the soil data collected for the site (Area 2 and 3), and conformance with the DQIs outlined in **Table E.1**. Any departures from the DQIs are noted in **Table E.2**.

Table E.2: Summary of Soil QA/QC Program – Site (Area 2 and 3)

QA/QC Item	Detail
QA	
Field procedures	Field procedures were undertaken in accordance with the methodologies and guidelines referenced in **Section 5** as well as JBS&G's standard operating procedures.
Decontamination of field equipment	• Downhole drilling equipment (handauger and pushtubes) were decontaminated using an appropriate detergent (Liquinox), followed by rinsing with deionised water prior to the commencement of drilling at each investigation location to minimise the potential for cross contamination. A rinsate sample was collected on every day of fieldwork to validate decontamination techniques. • A new pair of nitrile gloves was used for collection of each sample.
NATA accredited laboratories	The primary laboratory used was Eurofins and the secondary laboratory used was Envirolab. Both laboratories are NATA accredited for the analyses undertaken.
Sample tracking	Chain of Custody (COC) documentation was used for the transport of all samples to the laboratory. COC documents are included in **Appendix G**.
Sample preservation & storage	Samples were collected in laboratory supplied, clean glass or high-density polyethylene jars and samples were stored on ice in eskies during the field works and in transit to the laboratory.
Holding times	All samples were extracted and analysed within the recommended holding times with the exception of the following: • One sample in Eurofins laboratory report 998606-S, where the sample was collected on 30 May 2023 and extracted on 14 June 2023 (14 day holding time exceeded by one day); and • One sample in Eurofins laboratory report 998615-S, where the sample was collected on 31 May 2023 and extracted on 14 June 2023 (7 day holding time exceeded by 7 days). The results of the above analysis have been reviewed, and acknowledging the potential for underestimation in these samples, do not impact on the outcomes of this investigation. It is highlighted that all of the below were from additional analysis requested following receipt of initial laboratory results which results in a delay of extraction.
Equipment calibration	The PID was calibrated prior to the commencement of the field works. Calibration documentation is included in **Appendix D**.
Data transcription	Results are supplied by the laboratory as CSV files, which minimises the chance of transcription errors as the data is directly exported into files using ESdat.
Laboratory LORs	The LORs are presented in the results tables and NATA certificated in **Appendix G**. The LORs are appropriate for this assessment with all LORs being less than the adopted Tier 1 screening levels and offsite disposal / reuse criteria.
QC	
Rinsate samples	A rinsate sample was collected on every day of fieldwork to validate decontamination procedures by running deionised water over the clean hand auger / through the clean pushtube. The following rinsate samples were collected and analysed: • RB01 was collected on 22 May 2023 – analysed for heavy metals, TRH and BTEXN; • RB02 was collected on 23 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS;

QA/QC Item	Detail
	• RB03 was collected on 24 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS; • RB04 was collected on 25 May 2023 – analysed for heavy metals, TRH and BTEXN; • RB05 was collected on 26 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS; • RB06 was collected on 29 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS; • RB07 was collected on 30 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS; and • RB08 was collected on 31 May 2023 – analysed for heavy metals, TRH, BTEXN and PFAS. All results were below the laboratory reporting limits. The rinsate sample results are summarised in the attached **Summary Tables**.
Intra-laboratory duplicates	15 intra-laboratory duplicate sample pairs were collected and analysed as part of the soil investigation for the site (Portion A to W) for a total of 296 primary samples (including 50 primary samples for PFAS). The following intra-laboratory duplicate samples were collected and analysed: • DUP01 was collected with primary sample SB03_0-0.2 – analysed for heavy metals; • DUP03 was collected with primary sample SB26_0.2-0.5 – analysed for heavy metals; • DUP04 was collected with primary sample SB32_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • DUP05 was collected with primary sample SB38_0-0.2 – analysed for heavy metals, TRH, BTEXN and PAH; • DUP06 was collected with primary sample SB08_0-0.2 – analysed for PFAS; • DUP07 was collected with primary sample SB33_0-0.2 – analysed for heavy metals; • DUP08 was collected with primary sample SB60_0-0.2 – analysed for heavy metals; • DUP09 was collected with primary sample SB65_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • DUP11 was collected with primary sample SB87_0-0.2 – analysed for heavy metals; • DUP12 was collected with primary sample SB98_0.4-0.6 – analysed for heavy metals, TRH, BTEXN and PAH; • DUP14 was collected with primary sample SB165_0.7-1.0 – analysed for heavy metals; • DUP15 was collected with primary sample SB153_0-0.2 – analysed for PFAS; • DUP16 was collected with primary sample SB154_0.5-0.7 – analysed for heavy metals, TRH, BTEXN, PAH and OCPs; • DUP30 was collected with primary sample SB74_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH, OCPs and PFAS; and • DUP32 was collected with primary sample SB126_0.8-1.1 – analysed for heavy metals, TRH, BTEXN and PAH. The RPD results for the intra-laboratory duplicate sample for soil were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of 27 RPD values (of more than 580 total RPD values), all of which exceeded the acceptable range for various heavy metals. The elevated RPDs values were attributed to the low concentrations reported and/or heterogeneity in the soil sample. It is noted that where the higher concentration was reported in the intra-laboratory duplicate sample, both concentration (i.e. the primary and the duplicate sample) were below the Tier 1 screening levels and offsite disposal / reuse criteria. The soil intra-laboratory duplicate sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Inter-laboratory duplicates	15 inter-laboratory split sample pairs were collected and analysed as part of the soil investigation for the site (Portion A to W) for a total of 296 primary samples (including 50

QA/QC Item	Detail
	primary samples for PFAS). The following inter-laboratory split samples were collected and analysed: • SPLIT01 was collected with primary sample SB03_0-0.2 – analysed for heavy metals; • SPLIT03 was collected with primary sample SB26_0.2-0.5 – analysed for heavy metals; • SPLIT04 was collected with primary sample SB32_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • SPLIT05 was collected with primary sample SB38_0-0.2 – analysed for heavy metals, TRH, BTEXN and PAH; • SPLIT06 was collected with primary sample SB08_0-0.2 – analysed for PFAS; • SPLIT07 was collected with primary sample SB33_0-0.2 – analysed for heavy metals; • SPLIT08 was collected with primary sample SB60_0-0.2 – analysed for heavy metals; • SPLIT09 was collected with primary sample SB65_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • SPLIT11 was collected with primary sample SB87_0-0.2 – analysed for heavy metals; • SPLIT12 was collected with primary sample SB98_0.4-0.6 – analysed for heavy metals, TRH, BTEXN and PAH; • SPLIT14 was collected with primary sample SB165_0.7-1.0 – analysed for heavy metals; • SPLIT15 was collected with primary sample SB153_0-0.2 – analysed for PFAS; • SPLIT16 was collected with primary sample SB154_0.5-0.7 – analysed for heavy metals, TRH, BTEXN, PAH and OCPs; • SPLIT 30 was collected with primary sample SB74_0-0.2 – analysed for heavy metals, TRH, BTEXN, PAH, OCPs and PFAS; and • SPLIT32 was collected with primary sample SB126_0.8-1.1 – analysed for heavy metals, TRH, BTEXN and PAH. The RPD results for the inter-laboratory split sample for soil were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of 29 RPD values (of more than 540 total RPD values), all of which exceeded the acceptable range for various heavy metals. The elevated RPDs values were attributed to the low concentrations reported and/or heterogeneity in the soil sample. The soil inter-laboratory split sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Field blank samples	A field blank sample was collected on the majority of days of fieldwork where samples were collected for PFAS analysis to ensure PFAS was not introduced via sample handling. It is highlighted that samples for PFAS analysis were collected on two days where field blank samples were not collected (22 and 25 May 2023). The following field blank samples were collected and analysed for PFAS: • FB01 was collected on 23 May 2023; • FB02 was collected on 26 May 2023; • FB03 was collected on 29 May 2023; • FB04 was collected on 30 May 2023; and • FB05 was collected on 31 May 2023. All results were below the laboratory reporting limits. Given that PFAS was reported below the LOR in all soil samples analysed (see **Section 5.6**), the omission of field blank samples on two days where samples were collected for PFAS analysis will not impact on the outcomes of this investigation. The rinsate sample results are summarised in the attached **Summary Tables**.
Laboratory QC	Eurofins (primary laboratory) and Envirolab (secondary laboratory for QC purposes) undertook internal QA procedures and internal QC testing including laboratory duplicate sample analysis, laboratory blank sample analysis and laboratory spike sample analysis. The following was noted:

QA/QC Item	Detail
	• Duplicate samples – The RPD values reported for all internal duplicate pairs within the acceptable range with the exception the following: o 14 RPD values in Eurofins laboratory reports, all of which passed Eurofins Environment Testing's QC - Acceptance Criteria which allow a higher RPD when the concentration reported is a smaller multiple of the LOR; and o Four RPD values in Envirolab laboratory reports, all of which were accepted by Envirolab due to the inhomogeneous nature of the samples. It is noted triplicate analysis was undertaken in each instance and confirmed this. • Laboratory blank samples: All results were below the laboratory reporting limits. • Spike samples: The recoveries from the laboratory control spike samples were within the specified range for each contaminant with the exception of two results in Eurofins laboratory reports. In both cases Eurofins noted an acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

RINSATE SAMPLE RESULTS SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

Lab Report Number				992922	992922	993441	993964	994339	995383	995189	996096
Field ID				RB01	RB02	RB03	RB04_	RB05	RB06	RB07	RB08
Sample Date				22-May-23	23-May-23	24-May-23	25-May-23	26-May-23	29-May-23	30-May-23	31-May-23
Sample Type				Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
Chemical Group	**Chemical Name**	**Units**	**LOR**								
BTEXN	Benzene	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Toluene	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Ethylbenzene	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (m & p)	µg/L	0.002	<2	<2	<2	<2	<2	<2	<2	<2
	Xylene Total	µg/L	0.003	<3	<3	<3	<3	<3	<3	<3	<3
	Naphthalene_VOC	µg/L	0.01	<10	<10	<10	<10	<10	<10	<10	<10
Metals & Metalloids	Arsenic	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Cadmium	µg/L	0.0002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Chromium (III+VI)	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Copper	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Lead	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Mercury	µg/L	0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Nickel	µg/L	0.001	<1	<1	<1	<1	<1	<1	<1	<1
	Zinc	µg/L	0.005	<5	<5	<5	<5	<5	<5	<5	<5
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	µg/L	0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
TPHs (NEPC 1999)	C6-C9 Fraction	µg/L	0.02	<20	<20	<20	<20	<20	<20	<20	<20
	C10-C14 Fraction	µg/L	0.05	<50	<50	<50	<50	<50	<50	<50	<50
	C15-C28 Fraction	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	C29-C36 Fraction	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	C10-C36 Fraction (Sum of Total)	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
TRHs (NEPC 2013)	C6-C10	µg/L	0.02	<20	<20	<20	<20	<20	<20	<20	<20
	C10-C16	µg/L	0.05	<50	<50	<50	<50	<50	<50	<50	<50
	C16-C34	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	C34-C40	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	C10-C40 (Sum of total)	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	F1 (C6-C10 minus BTEX)	µg/L	20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10-C16 less Naphthalene)	µg/L	50	<50	<50	<50	<50	<50	<50	<50	<50

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	992922	Intra-Lab		992922	Inter-Lab		992922	Intra-Lab		992922	Inter-Lab	
	Field ID	SB03_0-0.2	DUP01	RPD	SB03_0-0.2	SPLIT01	RPD	SB26_0.2-0.5	DUP03	RPD	SB26_0.2-0.5	SPLIT03	RPD
	Sample Date	22-May-23	22-May-23		22-May-23	22-May-23		23-May-23	23-May-23		23-May-23	23-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	**2.2**	**9.3**	**123**	**2.2**	**5**	**78**	7.8	6.9	12	**7.8**	**5**	**44**
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	**6.5**	**57**	**159**	**6.5**	**51**	**155**	**32**	**12**	**91**	32	32	0
	Copper	mg/kg	5 : 1 (Interlab)	**5.8**	**45**	**154**	**5.8**	**32**	**139**	**20**	**7.9**	**87**	20	24	18
	Lead	mg/kg	5 : 1 (Interlab)	**9.6**	**41**	**124**	9.6	12	22	**12**	**6.1**	**65**	**12**	**7**	**53**
	Mercury	mg/kg	0.1	**<0.1**	**0.3**	**100**	<0.1	0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	**<5**	**26**	**135**	**<5**	**21**	**123**	**15**	**<5**	**100**	15	14	7
	Zinc	mg/kg	5 : 1 (Interlab)	**20**	**110**	**138**	**20**	**35**	**55**	**31**	**14**	**76**	**31**	**21**	**38**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)												
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)												
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)												
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)												
	C10-C36 Fraction (Sum of Total)	mg/kg	50												
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)												
	C10-C16	mg/kg	50												
	C16-C34	mg/kg	100												
	C34-C40	mg/kg	100												
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)												
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)												
	F2 (C10-C16 less Naphthalene)	mg/kg	50												
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)												
	Toluene	mg/kg	0.1 : 0.5 (Interlab)												
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)												
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)												
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)												
	Xylene Total	mg/kg	0.3 : 1 (Interlab)												
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)												
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)												
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)												
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)												
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5												
	Benzo(b+j)fluoranthene	mg/kg	0.5												
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(k)fluoranthene	mg/kg	0.5												
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)												
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)												
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)												
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)												
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	992922	Intra-Lab		992922	Inter-Lab		992922	Intra-Lab		992922	Inter-Lab	
			Field ID	SB03_0-0.2	DUP01	**RPD**	SB03_0-0.2	SPLIT01	**RPD**	SB26_0.2-0.5	DUP03	**RPD**	SB26_0.2-0.5	SPLIT03	**RPD**
			Sample Date	22-May-23	22-May-23		22-May-23	22-May-23		23-May-23	23-May-23		23-May-23	23-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)												
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Chlordane	mg/kg	0.1												
	DDT	mg/kg	0.05 : 0.1 (Interlab)												
	DDD	mg/kg	0.05 : 0.1 (Interlab)												
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin ketone	mg/kg	0.05												
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)												
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)												
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)												
	Toxaphene	mg/kg	0.5												
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005												
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)												
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005												
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)												
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)												
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005												
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)												
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)												
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)												
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)												
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)												
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005												
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)												
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01												
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)												
	Perfluorononanesulfonic acid ion	mg/kg	0.005												
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)												
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1												
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	992922	Intra-Lab		992922	Inter-Lab		993441	Intra-Lab		993441	Inter-Lab	
			Field ID	SB32_0-0.2	DUP04	**RPD**	SB32_0-0.2	SPLIT04	**RPD**	SB38_0.0-0.2	DUP05	**RPD**	SB38_0.0-0.2	SPLIT05	**RPD**
			Sample Date	23-May-23	23-May-23		23-May-23	23-May-23		25-May-23	25-May-23		25-May-23	25-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	6.3	7.1	12	6.3	6	5	5	4.5	11	5	<4	22
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	28	30	7	28	24	15	18	16	12	**18**	**10**	**57**
	Copper	mg/kg	5 : 1 (Interlab)	18	21	15	18	21	15	9.8	7.4	28	9.8	8	20
	Lead	mg/kg	5 : 1 (Interlab)	15	18	18	15	12	22	**7.4**	**5.3**	**33**	7.4	6	21
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	12	13	8	12	10	18	8.2	6.9	17	**8.2**	**6**	**31**
	Zinc	mg/kg	5 : 1 (Interlab)	38	47	21	**38**	**27**	**34**	**18**	**13**	**32**	**18**	**10**	**57**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	<20	<20	0	<20	<50	0	<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0	<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0	<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0	<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.2	0	<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0	<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0	<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0	<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<2	0	<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)	<0.3	<0.3	0	<0.3	<1	0	<0.3	<0.3	0	<0.3	<1	0
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<1	0	<0.5	<0.5	0	<0.5	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.5	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	**1.2**	**<0.5**	**82**	1.2	1.2	0	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	<0.5	18	0.6	0.6	0	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0	<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0	<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.5	0	<0.5	<0.05	0

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	992922	Intra-Lab	**RPD**	992922	Inter-Lab	**RPD**	993441	Intra-Lab	**RPD**	993441	Inter-Lab	**RPD**
			Field ID	SB32_0-0.2	DUP04		SB32_0-0.2	SPLIT04		SB38_0.0-0.2	DUP05		SB38_0.0-0.2	SPLIT05	
			Sample Date	23-May-23	23-May-23		23-May-23	23-May-23		25-May-23	25-May-23		25-May-23	25-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)												
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Chlordane	mg/kg	0.1												
	DDT	mg/kg	0.05 : 0.1 (Interlab)												
	DDD	mg/kg	0.05 : 0.1 (Interlab)												
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin ketone	mg/kg	0.05												
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)												
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)												
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)												
	Toxaphene	mg/kg	0.5												
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0						
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0						
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0						
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0						
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005								
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)	<0.01	<0.01	0	<0.01	<0.0001	0						
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005								
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01	<0.01	<0.01	0	<0.01								
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)	<0.05	<0.05	0	<0.05	<0.0001	0						
	Perfluorononanesulfonic acid ion	mg/kg	0.005	<0.005	<0.005	0	<0.005								
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)												
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1												
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	993441	Intra-Lab	RPD	993441	Inter-Lab	RPD	993964	Intra-Lab	RPD	993964	Inter-Lab	RPD
	Field ID	SB08_0.0-0.2	DUP06		SB08_0.0-0.2	SPLIT06		SB33_0.0-0.2	DUP07		SB33_0.0-0.2	SPLIT07	
	Sample Date	25-May-23	25-May-23		25-May-23	25-May-23		25-May-23	25-May-23		25-May-23	25-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)							4.4	4.2	5	4.4	5	13
	Cadmium	mg/kg	0.4							<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)							13	10	26	13	17	27
	Copper	mg/kg	5 : 1 (Interlab)							38	47	21	**38**	**23**	**49**
	Lead	mg/kg	5 : 1 (Interlab)							32	33	3	**32**	**15**	**72**
	Mercury	mg/kg	0.1							<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)							8.2	6.4	25	8.2	8	2
	Zinc	mg/kg	5 : 1 (Interlab)							45	41	9	**45**	**25**	**57**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)												
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)												
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)												
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)												
	C10-C36 Fraction (Sum of Total)	mg/kg	50												
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)												
	C10-C16	mg/kg	50												
	C16-C34	mg/kg	100												
	C34-C40	mg/kg	100												
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)												
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)												
	F2 (C10-C16 less Naphthalene)	mg/kg	50												
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)												
	Toluene	mg/kg	0.1 : 0.5 (Interlab)												
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)												
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)												
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)												
	Xylene Total	mg/kg	0.3 : 1 (Interlab)												
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)												
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)												
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)												
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)												
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5												
	Benzo(b+j)fluoranthene	mg/kg	0.5												
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(k)fluoranthene	mg/kg	0.5												
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)												
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)												
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)												
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)												
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	993441	Intra-Lab	**RPD**	993441	Inter-Lab	**RPD**	993964	Intra-Lab	**RPD**	993964	Inter-Lab	**RPD**
			Field ID	SB08_0.0-0.2	DUP06		SB08_0.0-0.2	SPLIT06		SB33_0.0-0.2	DUP07		SB33_0.0-0.2	SPLIT07	
			Sample Date	25-May-23	25-May-23		25-May-23	25-May-23		25-May-23	25-May-23		25-May-23	25-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)												
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Chlordane	mg/kg	0.1												
	DDT	mg/kg	0.05 : 0.1 (Interlab)												
	DDD	mg/kg	0.05 : 0.1 (Interlab)												
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin ketone	mg/kg	0.05												
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)												
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)												
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)												
	Toxaphene	mg/kg	0.5												
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0						
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0						
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0						
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0						
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0						
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0						
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005								
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)	<0.01	<0.01	0	<0.01	<0.0001	0						
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0						
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005								
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0						
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01	<0.01	<0.01	0	<0.01								
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)	<0.05	<0.05	0	<0.05	<0.0001	0						
	Perfluorononanesulfonic acid ion	mg/kg	0.005	<0.005	<0.005	0	<0.005								
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)												
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1												
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	993964	Intra-Lab		993964	Inter-Lab		994339	Intra-Lab		994339	Inter-Lab	
	Field ID	SB60_0.0-0.2	DUP08	RPD	SB60_0.0-0.2	SPLIT08	RPD	SB65_0-0.2	DUP09	RPD	SB65_0-0.2	SPLIT09	RPD
	Sample Date	25-May-23	25-May-23		25-May-23	25-May-23		26-May-23	26-May-23		26-May-23	26-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	**6.7**	**4.1**	**48**	**6.7**	**<4**	**50**	4	3.3	19	4	4	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	16	12	29	**16**	**9**	**56**	**13**	**9.4**	**32**	13	11	17
	Copper	mg/kg	5 : 1 (Interlab)	**13**	**9.3**	**33**	13	11	17	8	6.7	18	8	9	12
	Lead	mg/kg	5 : 1 (Interlab)	20	19	5	20	21	5	11	11	0	11	9	20
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	**9.5**	**6.5**	**38**	**9.5**	**5**	**62**	5.5	<5	10	5.5	5	10
	Zinc	mg/kg	5 : 1 (Interlab)	**39**	**27**	**36**	39	29	29	19	17	11	19	17	11
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)							<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)							<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)							<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50							56	57	2	56	<50	11
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50							<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100							<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100							<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)							<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50							<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)							<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)							<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)							<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)							<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)							<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)							<0.3	<0.3	0	<0.3	<1	0
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0	<0.5	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)							<0.5	<0.5	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5							1.2	1.2	0	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5							0.6	0.6	0	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5							<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5							<0.5	<0.5	0	<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5							<0.5	<0.5	0	<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)							<0.5	<0.5	0	<0.5	<0.05	0

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	993964	Intra-Lab	RPD	993964	Inter-Lab	RPD	994339	Intra-Lab	RPD	994339	Inter-Lab	RPD
	Field ID	SB60_0.0-0.2	DUP08		SB60_0.0-0.2	SPLIT08		SB65_0-0.2	DUP09		SB65_0-0.2	SPLIT09	
	Sample Date	25-May-23	25-May-23		25-May-23	25-May-23		26-May-23	26-May-23		26-May-23	26-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)										
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)										
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)										
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)										
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)										
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)										
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)										
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)										
	Chlordane	mg/kg	0.1										
	DDT	mg/kg	0.05 : 0.1 (Interlab)										
	DDD	mg/kg	0.05 : 0.1 (Interlab)										
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)										
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)										
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)										
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)										
	Endrin	mg/kg	0.05 : 0.1 (Interlab)										
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)										
	Endrin ketone	mg/kg	0.05										
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)										
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)										
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)										
	Toxaphene	mg/kg	0.5										
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)						<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)						<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)						<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)						<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)						<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)						<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005						<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)						<0.005	<0.005	0	<0.005	<0.001	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)						<0.005	<0.005	0	<0.005	<0.001	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)						<0.005	<0.005	0	<0.005	<0.001	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)						<0.005	<0.005	0	<0.005	<0.001	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005						<0.005	<0.005	0	<0.005	<0.005	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)						<0.01	<0.01	0	<0.01	<0.0002	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)						<0.01	<0.01	0	<0.01	<0.0002	0
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005						<0.005	<0.005	0	<0.005		
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	0.0002	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)						<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	<0.0001	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)						<0.01	<0.01	0	<0.01	<0.0001	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)						<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)						<0.005	<0.005	0	<0.005	<0.0002	0
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	0.0002	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005						<0.005	<0.005	0	<0.005		
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)						<0.005	<0.005	0	<0.005	0.0002	0
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01						<0.01	<0.01	0	<0.01		
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)						<0.05	<0.05	0	<0.05	0.0002	0
	Perfluorononanesulfonic acid ion	mg/kg	0.005						<0.005	<0.005	0	<0.005		
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)											
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1											
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1											

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	995383	Intra-Lab		995383	Inter-Lab		995189	Intra-Lab		995189	Inter-Lab	
	Field ID	SB87_0-0.2	DUP11	RPD	SB87_0-0.2	Split11	RPD	SB98_0.4-0.6	DUP12	RPD	SB98_0.4-0.6	SPLIT12	RPD
	Sample Date	29-May-23	29-May-23		29-May-23	29-May-23		30-May-23	30-May-23		30-May-23	30-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	5.1	4.3	17	5.1	4	24	6	6.1	2	**6**	**4**	**40**
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	13	14	7	13	11	17	15	16	6	**15**	**11**	**31**
	Copper	mg/kg	5 : 1 (Interlab)	10	11	10	10	11	10	12	10	18	12	11	9
	Lead	mg/kg	5 : 1 (Interlab)	17	17	0	17	17	0	22	18	20	22	20	10
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	7	7.3	4	7	6	15	8.3	8.8	6	**8.3**	**6**	**32**
	Zinc	mg/kg	5 : 1 (Interlab)	**27**	**40**	**39**	27	23	16	48	36	29	**48**	**26**	**59**
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)							<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)							<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)							<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50							<50	<50	0	<50	<50	0
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50							<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100							<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100							<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)							<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)							<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50							<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)							<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)							<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)							<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)							<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)							<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)							<0.3	<0.3	0	<0.3	<1	0
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)							<0.5	<0.5	0	<0.5	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)							<0.5	<0.5	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5							1.2	1.2	0	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5							0.6	0.6	0	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5							<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5							<0.5	<0.5	0	<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5							<0.5	<0.5	0	<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)							<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)							<0.5	<0.5	0	<0.5	<0.05	0

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	995383	Intra-Lab	**RPD**	995383	Inter-Lab	**RPD**	995189	Intra-Lab	**RPD**	995189	Inter-Lab	**RPD**
			Field ID	SB87_0-0.2	DUP11		SB87_0-0.2	Split11		SB98_0.4-0.6	DUP12		SB98_0.4-0.6	SPLIT12	
			Sample Date	29-May-23	29-May-23		29-May-23	29-May-23		30-May-23	30-May-23		30-May-23	30-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)												
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Chlordane	mg/kg	0.1												
	DDT	mg/kg	0.05 : 0.1 (Interlab)												
	DDD	mg/kg	0.05 : 0.1 (Interlab)												
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin ketone	mg/kg	0.05												
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)												
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)												
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)												
	Toxaphene	mg/kg	0.5												
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)												
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005												
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)												
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)												
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005												
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)												
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)												
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005												
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)												
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)												
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)												
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)												
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)												
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)												
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)												
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005												
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)												
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01												
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)												
	Perfluorononanesulfonic acid ion	mg/kg	0.005												
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)												
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1												
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	995189	Intra-Lab		995189	Inter-Lab		996096	Intra-Lab		996096	Inter-Lab	
			Field ID	SB165_0.7-1.0	DUP14	**RPD**	SB165_0.7-1.0	SPLIT14	**RPD**	SB153_0.0-0.2	DUP15	**RPD**	SB153_0.0-0.2	SPLIT15	**RPD**
			Sample Date	30-May-23	30-May-23		30-May-23	30-May-23		31-May-23	31-May-23		31-May-23	31-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	2.9	3.3	13	2.9	<4	0						
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0						
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	12	12	0	**12**	**6**	**67**						
	Copper	mg/kg	5 : 1 (Interlab)	8.4	8.7	4	8.4	8	5						
	Lead	mg/kg	5 : 1 (Interlab)	<5	<5	0	**<5**	**8**	**46**						
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0						
	Nickel	mg/kg	5 : 1 (Interlab)	9.6	8.3	15	**9.6**	**5**	**63**						
	Zinc	mg/kg	5 : 1 (Interlab)	**9.6**	**13**	**30**	9.6	8	18						
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)												
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)												
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)												
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)												
	C10-C36 Fraction (Sum of Total)	mg/kg	50												
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)												
	C10-C16	mg/kg	50												
	C16-C34	mg/kg	100												
	C34-C40	mg/kg	100												
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)												
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)												
	F2 (C10-C16 less Naphthalene)	mg/kg	50												
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)												
	Toluene	mg/kg	0.1 : 0.5 (Interlab)												
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)												
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)												
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)												
	Xylene Total	mg/kg	0.3 : 1 (Interlab)												
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)												
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)												
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)												
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)												
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5												
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5												
	Benzo(b+j)fluoranthene	mg/kg	0.5												
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)												
	Benzo(k)fluoranthene	mg/kg	0.5												
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)												
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)												
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)												
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)												
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)												
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)												
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	995189	Intra-Lab	**RPD**	995189	Inter-Lab	**RPD**	996096	Intra-Lab	**RPD**	996096	Inter-Lab	**RPD**
			Field ID	SB165_0.7-1.0	DUP14		SB165_0.7-1.0	SPLIT14		SB153_0.0-0.2	DUP15		SB153_0.0-0.2	SPLIT15	
			Sample Date	30-May-23	30-May-23		30-May-23	30-May-23		31-May-23	31-May-23		31-May-23	31-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**												
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)												
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)												
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)												
	Chlordane	mg/kg	0.1												
	DDT	mg/kg	0.05 : 0.1 (Interlab)												
	DDD	mg/kg	0.05 : 0.1 (Interlab)												
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)												
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)												
	Endrin ketone	mg/kg	0.05												
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)												
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)												
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)												
	Toxaphene	mg/kg	0.5												
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005							<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005							<0.005	<0.005	0	<0.005	<0.005	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)							<0.01	<0.01	0	<0.01	<0.0002	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)							<0.01	<0.01	0	<0.01	<0.0002	0
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005							<0.005	<0.005	0	<0.005		
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0001	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)							<0.01	<0.01	0	<0.01	<0.0001	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0001	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005							<0.005	<0.005	0	<0.005		
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0001	0
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01							<0.01	<0.01	0	<0.01		
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)							<0.05	<0.05	0	<0.05	0.0001	0
	Perfluorononanesulfonic acid ion	mg/kg	0.005							<0.005	<0.005	0	<0.005		
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)												
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1												
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1												

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	996096	Intra-Lab		996096	Inter-Lab		995383	Intra-Lab		995383	Inter-Lab	
	Field ID	SB154_0.5-0.7	DUP16	RPD	SB154_0.5-0.7	SPLIT16	RPD	SB74_0-0.2	DUP30	RPD	SB74_0-0.2	Split30	RPD
	Sample Date	31-May-23	31-May-23		31-May-23	31-May-23		29-May-23	29-May-23		29-May-23	29-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	<2	<2	0	<2	<4	0	4.3	4.8	11	4.3	4	7
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	5.4	<5	8	5.4	4	30	9.8	13	28	9.8	9	9
	Copper	mg/kg	5 : 1 (Interlab)	5.8	<5	15	5.8	5	15	**15**	**10**	**40**	15	12	22
	Lead	mg/kg	5 : 1 (Interlab)	<5	<5	0	<5	4	0	24	20	18	24	22	9
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	7.4	7.8	5	**7.4**	**5**	**39**	6.8	7.2	6	**6.8**	**5**	**31**
	Zinc	mg/kg	5 : 1 (Interlab)	9.3	7.1	27	9.3	7	28	35	29	19	35	26	30
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	<20	<20	0	<20	<50	0	<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0	<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0	<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0	<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.2	0	<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0	<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0	<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0	<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<2	0	<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)	<0.3	<0.3	0	<0.3	<1	0	<0.3	<0.3	0	<0.3	<1	0
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<1	0	<0.5	<0.5	0	<0.5	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.5	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	**1.2**	**<0.5**	**82**	1.2	1.2	0	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	<0.5	18	0.6	0.6	0	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0	<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0	<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.5	0	<0.5	<0.05	0

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

	Lab Report Number	996096	Intra-Lab		996096	Inter-Lab		995383	Intra-Lab		995383	Inter-Lab	
	Field ID	SB154_0.5-0.7	DUP16	RPD	SB154_0.5-0.7	SPLIT16	RPD	SB74_0-0.2	DUP30	RPD	SB74_0-0.2	Split30	RPD
	Sample Date	31-May-23	31-May-23		31-May-23	31-May-23		29-May-23	29-May-23		29-May-23	29-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**										
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Chlordane	mg/kg	0.1	<0.1	<0.1	0	<0.1			<0.1	<0.1	0	<0.1		
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Endrin ketone	mg/kg	0.05	<0.05	<0.05	0	<0.05			<0.05	<0.05	0	<0.05		
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
	Toxaphene	mg/kg	0.5	<0.5	<0.5	0	<0.5			<0.5	<0.5	0	<0.5		
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)							<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005							<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)							<0.005	<0.005	0	<0.005	<0.001	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005							<0.005	<0.005	0	<0.005	<0.005	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)							<0.01	<0.01	0	<0.01	<0.0002	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)							<0.01	<0.01	0	<0.01	<0.0002	0
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005							<0.005	<0.005	0	<0.005		
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0002	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	<0.0001	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)							<0.01	<0.01	0	<0.01	<0.0001	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)							<0.005	<0.005	0	<0.005	<0.0002	0
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0002	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005							<0.005	<0.005	0	<0.005		
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)							<0.005	<0.005	0	<0.005	0.0002	0
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01							<0.01	<0.01	0	<0.01		
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)							<0.05	<0.05	0	<0.05	0.0002	0
	Perfluorononanesulfonic acid ion	mg/kg	0.005							<0.005	<0.005	0	<0.005		
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.05	0	<0.05	<0.1	0
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1	<0.1	<0.1	0	<0.1			<0.1	<0.1	0	<0.1		
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<0.1	<0.1	0	<0.1			<0.1	<0.1	0	<0.1		

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	996096	Intra-Lab		996096	Inter-Lab	
			Field ID	SB126_0.8-1.1	DUP32	**RPD**	SB126_0.8-1.1	SPLIT32	**RPD**
			Sample Date	31-May-23	31-May-23		31-May-23	31-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**						
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	5.7	7.4	26	5.7	5	13
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	**10**	**16**	**46**	10	8	22
	Copper	mg/kg	5 : 1 (Interlab)	**7.1**	**12**	**51**	7.1	7	1
	Lead	mg/kg	5 : 1 (Interlab)	**6.7**	**11**	**49**	6.7	6	11
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	**6.1**	**9.1**	**39**	**6.1**	**4**	**42**
	Zinc	mg/kg	5 : 1 (Interlab)	**16**	**25**	**44**	16	12	29
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	<50	0	<50	<50	0
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 1 (Interlab)	<0.3	<0.3	0	<0.3	<1	0
	Naphthalene_VOC	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	**1.2**	**<0.5**	**82**
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	<0.5	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

SOIL RPD VALUES SUMMARY (AREA B AND C)
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	996096	Intra-Lab		996096	Inter-Lab	
			Field ID	SB126_0.8-1.1	DUP32	**RPD**	SB126_0.8-1.1	SPLIT32	**RPD**
			Sample Date	31-May-23	31-May-23		31-May-23	31-May-23	
Chemical Group	**Chemical Name**	**Units**	**LOR**						
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)						
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)						
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)						
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)						
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)						
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)						
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)						
	Aldrin + Dieldrin	mg/kg	0.05 : 0.1 (Interlab)						
	Chlordane	mg/kg	0.1						
	DDT	mg/kg	0.05 : 0.1 (Interlab)						
	DDD	mg/kg	0.05 : 0.1 (Interlab)						
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)						
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)						
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)						
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)						
	Endrin	mg/kg	0.05 : 0.1 (Interlab)						
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)						
	Endrin ketone	mg/kg	0.05						
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)						
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)						
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)						
	Toxaphene	mg/kg	0.5						
PFAS	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)						
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)						
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)						
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)						
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)						
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)						
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005						
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)						
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)						
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)						
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)						
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005						
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)						
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)						
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005						
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)						
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)						
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)						
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)						
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)						
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)						
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)						
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005						
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)						
	Sum of WA DWER PFAS (n=10)*	mg/kg	0.01						
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)						
	Perfluorononanesulfonic acid ion	mg/kg	0.005						
Chlorinated Benzenes	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)						
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	mg/kg	0.1						
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1						

*High RPDs are in bold (an acceptable RPD range of 0 % to 30 % has been adopted in accordance with the ASC NEPM [NEPM 2013])
**Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

FIELD BLANK SAMPLE RESULTS SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

			Lab Report Number	992922	994339	995383	995189	996096
			Field ID	FB01	FB02	FB03	FB04	FB05
			Sample Date	23-May-23	26-May-23	29-May-23	30-May-23	31-May-23
			Sample Type	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Chemical Group	**Chemical Name**	**Units**	**LOR**					
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

2024 (Area 1)

E.3 Data Quality Indicators (2024)

Specific data quality indicator (DQI) limits were adopted in accordance with the ASC NEPM (NEPC 2013) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data was assessed against appropriate DQIs established in relation to precision, accuracy, representativeness, comparability and completeness and sensitivity (PARCCS parameters), as follows:

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples;
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards;
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy;
- **Comparability** – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples, ensuring analysing laboratories use consistent analysis techniques and reporting methods;
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study; and
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting.

The DQIs adopted as part of the assessment are summarised in **Table E.3**.

Table E.3: Summary of Data Quality Indicators

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Intra-laboratory duplicate samples	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Inter-laboratory split samples	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Laboratory duplicates[#1]	• 1 per 20 primary samples (5%) – all chemicals with the exception of PFAS • 1 per 10 primary samples (10%) – PFAS	<30% RPD
Accuracy		
Method blanks	1 per lab batch	Less than the laboratory limit of reporting (<LOR)
Laboratory control samples	1 per lab batch	70-130% or as nominated in the laboratory's QC report
Matrix spikes	1 per lab batch	70-130% or as nominated in the laboratory's QC report
Representativeness		
Sampling appropriate for media and analytes	-	-[#2]
Samples extracted and analysed within holding times	All samples	Samples extracted and analysed within analysis specific holding times
Rinsate samples	1 per day of site work where reusable equipment is used	<LOR
Field blanks	1 per day of site work where samples are analysed for PFAS	<LOR
Laboratory blanks	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection and handling	All samples	Samples collected in accordance with relevant procedure[#2]
Standard analytical methods used for all analyses	All samples	• All samples analysed by a laboratory that is NATA accredited for the analyses performed • Primary laboratory to be consistent for all samples with the exception of inter-laboratory split samples
Consistent field conditions, sampling staff and laboratory analysis	All samples	-[#2]

Data Quality Objectives	Frequency	Data Quality Indicator
Limits of reporting appropriate and consistent	All samples	Laboratory LOR is below adopted guideline values and allows relevant comparability between results where more than one laboratory is used (i.e. for analysis of inter-laboratory split samples)
Completeness		
Sample description and COCs completed and appropriate	All samples	-[#2]
Appropriate documentation	All samples	-[#2]
Satisfactory frequency and result for QC samples	All QA/QC samples	As detailed above
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	Laboratory LOR is below adopted guideline values

Notes:

#1: Duplicate sample analysis performed by the laboratory as part of their internal QA/QC program for the data.

#2: A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

E.4 Soil Investigation Data Quality Assessment (2024)

Table E.4 summarises the QA/QC activities undertaken to ensure integrity of the soil data collected for the site (Area 1), and conformance with the DQIs outlined in **Table E.3**. Any departures from the DQIs are noted in **Table E.4**.

Table E.4: Summary of Soil QA/QC Program – Site (Area 1)

QA/QC Item	Detail
QA	
Field procedures	Field procedures were undertaken in accordance with the methodologies and guidelines referenced in **Section 5** as well as JBS&G's standard operating procedures.
Decontamination of field equipment	• Downhole drilling equipment (handauger and pushtubes) were decontaminated using an appropriate detergent (Liquinox), followed by rinsing with deionised water prior to the commencement of drilling at each investigation location to minimise the potential for cross contamination. A rinsate sample was collected on every day of fieldwork to validate decontamination techniques. • A new pair of nitrile gloves was used for collection of each sample.
NATA accredited laboratories	The primary laboratory used was Eurofins and the secondary laboratory used was Envirolab. Both laboratories are NATA accredited for the analyses undertaken.
Sample tracking	Chain of Custody (COC) documentation was used for the transport of all samples to the laboratory. COC documents are included in **Appendix G**.
Sample preservation & storage	Samples were collected in laboratory supplied, clean glass or high-density polyethylene jars and samples were stored on ice in eskies during the field works and in transit to the laboratory.
Holding times	All samples were extracted and analysed within the recommended holding times with the exception of the following: • Samples collected on 13 June 2024, as follows: o Soil samples – all samples analysed for VOCs, pH and conductivity; and o QC water samples – analysed for TRH. This batch of samples was misplaced by the primary laboratory (Eurofins MGT) on receipt at the laboratory in Melbourne. The results of the above analysis have been reviewed, and acknowledging the potential for underestimation in these samples, this is considered unlikely to have impacted on the outcomes of this investigation.
Equipment calibration	The PID was calibrated prior to the commencement of the field works. Calibration documentation is included in **Appendix D**.
Data transcription	Results are supplied by the laboratory as CSV files, which minimises the chance of transcription errors as the data is directly exported into files using ESdat.
Laboratory LORs	The LORs are presented in the results tables and NATA certificated in **Appendix G**. The LORs are appropriate for this assessment with all LORs being less than the adopted Tier 1 screening levels and offsite disposal / reuse criteria outlined in **Section 5.4**.
QC	
Rinsate samples	A rinsate sample was collected on every day of fieldwork to validate decontamination procedures by running deionised water over the clean hand auger / through the clean pushtube, noting one rinsate sample was lost in transit to the laboratory (RB_12 collected on 12 June 2024). The following rinsate samples were collected and analysed: • RB01 was collected on 22 May 2024 – analysed for heavy metals, TRH, BTEXN and PFAS; • RB03 was collected on 23 May 2024 – analysed for heavy metals, TRH, BTEXN and PFAS;

QA/QC Item	Detail
	• RB04 was collected on 29 May 2024 – analysed for heavy metals, TRH, BTEXN and PFAS; • RB_13 was collected on 13 June 2024 – analysed for heavy metals, TRH, BTEXN and PFAS; and • RB_14 was collected on 14 June 2024 – analysed for heavy metals, TRH, BTEXN and PFAS. All results were below the laboratory reporting limits. The absence of rinsate sample data for one day is not considered to impact the outcomes of this assessment, given no significant contamination was identified in soils at the site. The rinsate sample results are summarised in the attached **Summary Tables**.
Intra-laboratory duplicates	Seven intra-laboratory duplicate sample pairs were collected and analysed as part of the soil investigation for the site (Area 1) for a total of 123 primary samples analysed for any one chemical (heavy metals), noting 34 primary samples were analysed for PFAS. The following intra-laboratory duplicate samples were collected and analysed: • DUP02 was collected with primary sample BH02/1_0-0.2 on 22 May 2024 – analysed for heavy metals, TRH, BTEXN, PAH, OCPs and PFAS; • DUP03 was collected with primary sample BH20/1_0-0.3 on 22 May 2024 – analysed for heavy metals; • DUP06 was collected with primary sample BH37/2_0-0.2 on 29 May 2024– analysed for heavy metals, OCPs and PFAS; • DUP07 was collected with primary sample BH51/1_0-0.2 on 12 June 2024 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • DUP08 was collected with primary sample BH57/1_0-0.2 on 12 June 2024 – analysed for heavy metals, TRH, BTEXN and PAH; • DUP12 was collected with primary sample BH12/2_0.3-0.5 on 13 June 2024 – analysed for heavy metals, TRH, BTEXN and PAH; and • DUP13 was collected with primary sample BH15/2_0.3-0.5 on 13 June 2024 – analysed for heavy metals. The RPD results for the intra-laboratory duplicate sample for soil were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of a total of 19 RPD values (of more than 340 total RPD values) which exceeded the acceptable range for heavy metals (total of 14 RPD values) and TRH (5 RPDs for various TRH fractions from a single sample). The following was noted: • The elevated RPDs values for heavy metals were attributed to the low concentrations reported (close to the LOR). The higher concentrations reported have been adopted for the assessment of soil; and • The elevated RPD values for TRH were associated with relatively high TRH concentrations in the primary sample vs concentrations reported below the laboratory LOR in the intra-laboratory duplicate sample. It is noted that concentrations reported in the inter-laboratory split sample were similar to those reported in the intra-laboratory duplicate sample (which were either below the laboratory LOR, or only slightly above the laboratory LOR). Additional testing was completed on this sample, with TRH result following silica gel cleanup below the laboratory LOR in the primary sample, indicating a biogenic source. Given the above, this was not considered to impact the outcomes of the investigation. The soil intra-laboratory duplicate sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Inter-laboratory duplicates	Seven inter-laboratory split sample pairs were collected and analysed as part of the soil investigation for the site (Area 1) for a total of 123 primary samples analysed for any one chemical (heavy metals), noting 34 primary samples were analysed for PFAS. The following inter-laboratory split samples were collected and analysed:

QA/QC Item	Detail
	• SPLIT02 was collected with primary sample BH02/1_0-0.2 on 22 May 2024 – analysed for heavy metals, TRH, BTEXN, PAH, OCPs and PFAS; • SPLIT03 was collected with primary sample BH20/1_0-0.3 on 22 May 2024 – analysed for heavy metals; • SPLIT06 was collected with primary sample BH37/2_0-0.2 on 29 May 2024– analysed for heavy metals, OCPs and PFAS; • SPLIT07 was collected with primary sample BH51/1_0-0.2 on 12 June 2024 – analysed for heavy metals, TRH, BTEXN, PAH and PFAS; • SPLIT08 was collected with primary sample BH57/1_0-0.2 on 12 June 2024 – analysed for heavy metals, TRH, BTEXN and PAH; • SPLIT12 was collected with primary sample BH12/2_0.3-0.5 on 13 June 2024 – analysed for heavy metals, TRH, BTEXN and PAH; and • SPLIT13 was collected with primary sample BH15/2_0.3-0.5 on 13 June 2024 – analysed for heavy metals. The RPD results for the inter-laboratory split sample for soil were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of 15 RPD values (of more than 320 total RPD values), all of which exceeded the acceptable range for various heavy metals. The elevated RPDs values were attributed to the low concentrations reported (close to the LOR). The soil inter-laboratory split sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Field blank samples	The purpose of the field blank samples was to demonstrate PFAS was not introduced via sample handling. A field blank sample was collected on all days of the soil investigation program with the exception of 14 June 2024 when only three soil boreholes were drilled and sampled. In addition, the field blank collected on 12 June 2024 was lost in transit to the laboratory. The following field blank samples were collected and analysed for PFAS: • FB01 was collected on 22 May 2024 – analysed for PFAS; • FB02 was collected on 23 May 2024 – analysed for PFAS; • TB04 was collected on 29 May 2024 – analysed for PFAS; and • FB_13 was collected on 13 June 2024 – analysed for PFAS. All results were below the laboratory reporting limits. Given that PFAS was reported below the LOR in all soil samples analysed (see **Section 5.6**), the absence of field blank sample data for two days of the soil investigation program will not impact on the outcomes of this investigation. The rinsate sample results are summarised in the attached **Summary Tables**.

Laboratory QC	Eurofins (primary laboratory) and Envirolab (secondary laboratory for QC purposes) undertook internal QA procedures and internal QC testing including laboratory duplicate sample analysis, laboratory blank sample analysis and laboratory spike sample analysis. The following was noted:
	• Duplicate samples – The RPD values reported for all internal duplicate pairs within the acceptable range with the exception the following:
	  o 11 RPD values in Eurofins laboratory reports, all of which passed Eurofins Environment Testing's QC - Acceptance Criteria which allow a higher RPD when the concentration reported is a smaller multiple of the LOR; and
	  o 34 RPD values in Envirolab laboratory reports, which was noted to be attributed to the low concentrations reported (within 10 % of the LOR) and possible sample heterogeneity.
	• Laboratory blank samples: All results were below the laboratory reporting limits.
	• Spike samples: The recoveries from the laboratory control spike samples were within the specified range for each contaminant with the exception of a number of PFAS, TRH

QA/QC Item	Detail
	and PAH results in Envirolab laboratory reports. These were either not appliable (noting the laboratory control sample [LCS] was within the acceptable criteria), or suspected to be associated with non-homogeneity or matrix interference.

RINSATE SAMPLE RESULTS SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Field ID	RB01	RB03	RB04	RB_13	RB_14	RB01	RB12
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
			Date	22 May 2024	23 May 2024	29 May 2024	13 Jun 2024	14 Jun 2024	13 Jun 2024	14 Jun 2024
			Program	Soil	Soil	Soil	Soil	Soil	Groundwater	Groundwater
			Lab Report Number	1101684	1101721	1104324	1111027	1108473	1107846	1108479
		Unit	LOR							
Metals & Metalloids										
	Arsenic	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Chromium (III+VI)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Nickel	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TPHs (NEPC 1999)										
	C6-C9 Fraction	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C10-C14 Fraction	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	C15-C28 Fraction	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C29-C36 Fraction	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C10-C36 Fraction (Sum of Total)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRHs (NEPC 2013)										
	C6-C10	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C10-C16	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	C16-C34	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C34-C40	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C10-C40 (Sum of total)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	F1 (C6-C10 minus BTEX)	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	F2 (C10-C16 less Naphthalene)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BTEXN										
	Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Ethylbenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (o)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Xylene Total	mg/L	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	Naphthalene_VOC	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PFAS										
	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

SOIL RPD SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

			Location Code	BH02	BH02		BH02	BH02		BH20	BH20		BH20	BH20	
			Field ID	BH02/1_0.2	DUP02		BH02/1_0.2	Split02		BH20/1_0-0.3	DUP03		BH20/1_0-0.3	Split03	
			Sample Type	Normal	Intra-Lab		Normal	Inter-Lab		Normal	Intra-Lab		Normal	Inter-Lab	
			Date	22 May 2024	22 May 2024		22 May 2024	22 May 2024		22 May 2024	22 May 2024		22 May 2024	22 May 2024	
			Lab Report Number	1101684	1101684	RPD	1101684	MFE0559	RPD	1101684	1101684	RPD	1101684	MFE0559	RPD
		Unit	LOR												
Metals & Metalloids															
	Arsenic	mg/kg	2	3.7	3.2	14	3.7	4.4	17	7.0	8.9	24	7.0	7.9	12
	Cadmium	mg/kg	0.4	0.9	0.9	0	0.9	<0.40	77	<0.4	<0.4	0	<0.4	<0.40	0
	Chromium (III+VI)	mg/kg	1	9.5	9.1	4	9.5	8.8	8	11	12	9	11	7.8	34
	Copper	mg/kg	1	8.3	6.6	23	8.3	10	19	17	13	27	17	25	38
	Lead	mg/kg	1	26	20	26	26	29	11	8.3	10	19	8.3	19	78
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.10	0	<0.1	<0.1	0	<0.1	<0.10	0
	Nickel	mg/kg	1	<5	<5	0	<5	4.5	0	7.2	9.3	25	7.2	7.2	0
	Zinc	mg/kg	1	210	140	40	210	85	85	39	42	7	39	28	33
TPHs (NEPC 1999)															
	C6-C9 Fraction	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
	C10-C14 Fraction	mg/kg	20	<20	<20	0	<20	<50	0	<20	-	-	<20	-	-
	C15-C28 Fraction	mg/kg	50	<50	<50	0	<50	<100	0	<50	-	-	<50	-	-
	C29-C36 Fraction	mg/kg	50	<50	<50	0	<50	<100	0	<50	-	-	<50	-	-
	C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	<50	0	<50	<50	0	<50	-	-	<50	-	-
TRHs (NEPC 2013)															
	C6-C10	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0	<50	-	-	<50	-	-
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0	<100	-	-	<100	-	-
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0	<100	-	-	<100	-	-
	C10-C40 (Sum of total)	mg/kg	50	<100	<100	0	<100	<50	0	<100	-	-	<100	-	-
	F1 (C6-C10 minus BTEX)	mg/kg	20	<20	<20	0	<20	<25	0	<20	-	-	<20	-	-
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0	<50	-	-	<50	-	-
BTEXN															
	Benzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.20	0	<0.1	-	-	<0.1	-	-
	Toluene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.50	0	<0.1	-	-	<0.1	-	-
	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1.0	0	<0.1	-	-	<0.1	-	-
	Xylene (o)	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1.0	0	<0.1	-	-	<0.1	-	-
	Xylene (m & p)	mg/kg	0.2	<0.2	<0.2	0	<0.2	<2.0	0	<0.2	-	-	<0.2	-	-
	Xylene Total	mg/kg	0.3	<0.3	<0.3	0	<0.3	<3.0	0	<0.3	-	-	<0.3	-	-
	Naphthalene_VOC	mg/kg	0.5	<0.5	<0.5	0	<0.5	<1.0	0	<0.5	-	-	<0.5	-	-
PAH															
	Acenaphthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Acenaphthylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Benz(a)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.05	<0.5	<0.5	0	<0.5	0.078	0	<0.5	-	-	<0.5	-	-
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	1.2	<0.50	82	1.2	-	-	1.2	-	-
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	<0.50	18	0.6	-	-	0.6	-	-
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.50	0	<0.5	-	-	<0.5	-	-
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	<0.20	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Chrysene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Fluoranthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	0.12	0	<0.5	-	-	<0.5	-	-
	Fluorene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Naphthalene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Phenanthrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	-	-	<0.5	-	-
	Pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	0.13	0	<0.5	-	-	<0.5	-	-
	PAHs (Sum of total)	mg/kg	0.05	<0.5	<0.5	0	<0.5	0.33	0	<0.5	-	-	<0.5	-	-
Organochlorine Pesticides															
	4,4-DDE	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	a-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	b-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	d-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	g-BHC (Lindane)	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Aldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Aldrin + Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Chlordane	mg/kg	0.1	0.1	<0.1	0	0.1	-	-	<0.1	-	-	<0.1	-	-
	Chlordane (cis)	mg/kg	0.1	-	-	-	-	<0.10	-	-	-	-	-	-	-
	DDT	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	DDT+DDE+DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endosulfan I	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endosulfan II	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endosulfan sulphate	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin ketone	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Heptachlor Epoxide	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Methoxychlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Mirex	mg/kg	0.1	-	-	-	-	<0.10	-	-	-	-	-	-	-
	Toxaphene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	-	-	<0.5	-	-
PFAS															
	Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	-	-	<0.005	-	-
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	-	-	<0.005	-	-
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	-	-	<0.005	-	-
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	-	-	<0.005	-	-
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	-	-	<0.005	-	-
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	-	-	<0.005	-	-
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.0050	0	<0.005	-	-	<0.005	-	-
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	-	-	<0.005	-	-
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	-	-	<0.005	-	-
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	-	-	<0.005	-	-
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	-	-	<0.005	-	-
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.0050	0	<0.005	-	-	<0.005	-	-
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.00020	0	<0.01	-	-	<0.01	-	-
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.00020	0	<0.01	-	-	<0.01	-	-
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.00020	0	<0.005	-	-	<0.005	-	-
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	-	-	<0.005	-	-
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	-	-	<0.005	-	-
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	<0.01	<0.01	0	<0.01	<0.00010	0	<0.01	-	-	<0.01	-	-
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	-	-	<0.005	-	-
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	-	-	<0.005	-	-
	Sum of PFHxS and PFOS	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.00020	0	<0.005	-	-	<0.005	-	-
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.00020	0	<0.005	-	-	<0.005	-	-
	Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	-	-	<0.01	-	-
	Sum of PFAS	mg/kg	0.0001	<0.05	<0.05	0	<0.05	0.00020	0	<0.05	-	-	<0.05	-	-
Chlorinated Benzenes															
	Hexachlorobenzene	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-

***Elevated RPDs are highlighted (an acceptable RPD rnage of 0% to 30 % has been adopted in accordance with the ASC NEPM [NEPC 2013]).**
****Interlab split samples are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.**

SOIL RPD SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

			Location Code	BH37	BH37		BH37	BH37		BH51	BH51		BH51	BH51	
			Field ID	BH37/1_0-0.2	DUP06		BH37/1_0-0.2	SPLIT06		BH51/1 - 0-0.2	DUP07		BH51/1 - 0-0.2	SPLIT07	
			Sample Type	Normal	Intra-Lab		Normal	Inter-Lab		Normal	Intra-Lab		Normal	Inter-Lab	
			Date	29 May 2024	29 May 2024		29 May 2024	29 May 2024		12 Jun 2024	12 Jun 2024		12 Jun 2024	12 Jun 2024	
			Lab Report Number	1104324	1104324	RPD	1104324	MFF0064	RPD	1108012	1108012	RPD	1108012	MFF0256	RPD
		Unit	LOR												
Metals & Metalloids															
	Arsenic	mg/kg	2	2.1	<2	5	2.1	4.7	76	8.6	4.5	63	8.6	6.9	22
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.40	0	<0.4	<0.4	0	<0.4	<0.40	0
	Chromium (III+VI)	mg/kg	1	<5	5.2	4	<5	5.2	4	11	34	102	11	13	17
	Copper	mg/kg	1	13	8.9	37	13	30	79	17	8.4	68	17	18	6
	Lead	mg/kg	1	8.9	21	81	8.9	15	51	9.0	5.2	54	9.0	10	11
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.10	0	<0.1	<0.1	0	<0.1	<0.10	0
	Nickel	mg/kg	1	<5	<5	0	<5	5.8	15	12	10	18	12	15	22
	Zinc	mg/kg	1	27	38	34	27	42	43	21	13	47	21	22	5
TPHs (NEPC 1999)															
	C6-C9 Fraction	mg/kg	20	-	-	-	-	-	-	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20	-	-	-	-	-	-	<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50	-	-	-	-	-	-	<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50	-	-	-	-	-	-	<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50	-	-	-	-	-	-	51	<50	2	51	<50	2
TRHs (NEPC 2013)															
	C6-C10	mg/kg	20	-	-	-	-	-	-	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	-	-	-	-	-	-	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	-	-	-	-	-	-	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	-	-	-	-	-	-	<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	50	-	-	-	-	-	-	<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20	-	-	-	-	-	-	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	-	-	-	-	-	-	<50	<50	0	<50	<50	0
BTEXN															
	Benzene	mg/kg	0.1	-	-	-	-	-	-	<0.1	<0.1	0	<0.1	<0.20	0
	Toluene	mg/kg	0.1	-	-	-	-	-	-	<0.1	<0.1	0	<0.1	<0.50	0
	Ethylbenzene	mg/kg	0.1	-	-	-	-	-	-	<0.1	<0.1	0	<0.1	<1.0	0
	Xylene (o)	mg/kg	0.1	-	-	-	-	-	-	<0.1	<0.1	0	<0.1	<1.0	0
	Xylene (m & p)	mg/kg	0.2	-	-	-	-	-	-	<0.2	<0.2	0	<0.2	<2.0	0
	Xylene Total	mg/kg	0.3	-	-	-	-	-	-	<0.3	<0.3	0	<0.3	<3.0	0
	Naphthalene_VOC	mg/kg	0.5	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<1.0	0
PAH															
	Acenaphthene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Acenaphthylene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Anthracene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Benz(a)anthracene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Benzo(a)pyrene	mg/kg	0.05	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	0.099	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	-	-	-	-	-	-	1.2	1.2	0	1.2	<0.50	82
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	-	-	-	-	-	-	0.6	0.6	0	0.6	<0.50	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.50	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	-	-
	Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	-	-	-	-	-	-	<0.20	-
	Benzo(g,h,i)perylene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	-	-
	Chrysene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	0.10	0
	Dibenz(a,h)anthracene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Fluoranthene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	0.16	0
	Fluorene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Naphthalene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Phenanthrene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	<0.10	0
	Pyrene	mg/kg	0.1	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	0.17	0
	PAHs (Sum of total)	mg/kg	0.05	-	-	-	-	-	-	<0.5	<0.5	0	<0.5	0.53	6
Organochlorine Pesticides															
	4,4-DDE	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	a-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	b-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	d-BHC	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	g-BHC (Lindane)	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Aldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Aldrin + Dieldrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Chlordane	mg/kg	0.1	<0.1	<0.1	0	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Chlordane (cis)	mg/kg	0.1	-	-	-	-	<0.10	-	-	-	-	-	-	-
	DDT	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	DDT+DDE+DDD	mg/kg	0.05	<0.05	<0.05	0	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endosulfan I	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endosulfan II	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endosulfan sulphate	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Endrin ketone	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Heptachlor Epoxide	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Methoxychlor	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-
	Mirex	mg/kg	0.1	-	-	-	-	<0.10	-	-	-	-	-	-	-
	Toxaphene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	-	-	<0.5	-	-
PFAS															
	Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	<0.005	0	<0.005	<0.00020	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	<0.005	0	<0.005	<0.00020	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.00023	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	<0.005	0	<0.005	<0.00050	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	<0.005	0	<0.005	<0.00050	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	<0.005	0	<0.005	<0.00050	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.00050	0	<0.005	<0.005	0	<0.005	<0.00050	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.0050	0	<0.005	<0.005	0	<0.005	<0.0050	0
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	<0.005	0	<0.005	<0.0010	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0020	0	<0.005	<0.005	0	<0.005	<0.0010	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	<0.005	0	<0.005	<0.0010	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	<0.005	<0.005	0	<0.005	<0.0010	0	<0.005	<0.005	0	<0.005	<0.0010	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.0050	0	<0.005	<0.005	0	<0.005	<0.0050	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.00020	0	<0.01	<0.01	0	<0.01	<0.00020	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.00020	0	<0.01	<0.01	0	<0.01	<0.00020	0
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005	-	-	<0.005	<0.005	0	<0.005	-	-
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.0010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	<0.005	0	<0.005	<0.00020	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.00010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	<0.01	<0.01	0	<0.01	<0.00010	0	<0.01	<0.01	0	<0.01	<0.00010	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	<0.005	0	<0.005	<0.00020	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.00020	0	<0.005	<0.005	0	<0.005	<0.00020	0
	Sum of PFHxS and PFOS	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.0010	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005	-	-	<0.005	<0.005	0	<0.005	-	-
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	<0.005	<0.005	0	<0.005	0.0012	0	<0.005	<0.005	0	<0.005	<0.00010	0
	Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	<0.01	0	<0.01	-	-
	Sum of PFAS	mg/kg	0.0001	<0.05	<0.05	0	<0.05	0.0012	0	<0.05	<0.05	0	<0.05	<0.00010	0
Chlorinated Benzenes															
	Hexachlorobenzene	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	-	-	<0.05	-	-

***Elevated RPDs are highlighted (an acceptable RPD rnage of 0% to 30 % has been adopted in accordance with the ASC NEPM [NEPC 2013]).**
****Interlab split samples are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.**

SOIL RPD SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

			Location Code	BH57	BH57		BH57	BH57		BH12	BH12		BH12	BH12	
			Field ID	BH57/1 - 0-0.2	DUP08		BH57/1 - 0-0.2	SPLIT08		BH12/2_0.3-0.5	DUP12		BH12/2_0.3-0.5	SPLIT12	
			Sample Type	Normal	Intra-Lab		Normal	Inter-Lab		Normal	Intra-Lab		Normal	Inter-Lab	
			Date	12 Jun 2024	12 Jun 2024		12 Jun 2024	12 Jun 2024		13 Jun 2024	13 Jun 2024		13 Jun 2024	13 Jun 2024	
			Lab Report Number	1108012	1108012	RPD	1108012	MFF0256	RPD	1111027	1111027	RPD	1111027	MFF0429	RPD
		Unit	LOR												
Metals & Metalloids															
	Arsenic	mg/kg	2	3.9	4.1	5	3.9	4.3	10	4.8	4.6	4	4.8	4.8	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.40	0	<0.4	<0.4	0	<0.4	<0.40	0
	Chromium (III+VI)	mg/kg	1	18	10	57	18	12	40	18	17	6	18	16	12
	Copper	mg/kg	1	10	15	40	10	13	26	15	16	6	15	18	18
	Lead	mg/kg	1	23	19	19	23	16	36	35	29	19	35	27	26
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.10	0	<0.1	<0.1	0	<0.1	<0.10	0
	Nickel	mg/kg	1	8.2	5.4	41	8.2	5.6	38	9.3	11	17	9.3	9.2	1
	Zinc	mg/kg	1	120	52	79	120	78	42	48	45	6	48	44	9
TPHs (NEPC 1999)															
	C6-C9 Fraction	mg/kg	20	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20	73	<20	114	73	<50	37	<20	<20	0	<20	<50	0
	C15-C28 Fraction	mg/kg	50	2,000	<50	190	2,000	<100	181	<50	<50	0	<50	<100	0
	C29-C36 Fraction	mg/kg	50	1,100	<50	183	1,100	110	164	<50	<50	0	<50	<100	0
	C10-C36 Fraction (Sum of Total)	mg/kg	50	3,400	<50	194	3,400	110	187	<50	<50	0	<50	<50	0
TRHs (NEPC 2013)															
	C6-C10	mg/kg	20	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	180	<50	113	180	<50	113	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	2,700	<100	186	2,700	<100	186	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	700	<100	150	700	180	118	<100	<100	0	<100	<100	0
	C10-C40 (Sum of total)	mg/kg	50	3,580	<100	189	3,580	180	181	<100	<100	0	<100	<50	0
	F1 (C6-C10 minus BTEX)	mg/kg	20	<20	<20	0	<20	<25	0	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	180	<50	113	180	<50	113	<50	<50	0	<50	<50	0
BTEXN															
	Benzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.20	0	<0.1	<0.1	0	<0.1	<0.20	0
	Toluene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.50	0	<0.1	<0.1	0	<0.1	<0.50	0
	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1.0	0	<0.1	<0.1	0	<0.1	<1.0	0
	Xylene (o)	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1.0	0	<0.1	<0.1	0	<0.1	<1.0	0
	Xylene (m & p)	mg/kg	0.2	<0.2	<0.2	0	<0.2	<2.0	0	<0.2	<0.2	0	<0.2	<2.0	0
	Xylene Total	mg/kg	0.3	<0.3	<0.3	0	<0.3	<3.0	0	<0.3	<0.3	0	<0.3	<3.0	0
	Naphthalene_VOC	mg/kg	0.5	<0.5	<0.5	0	<0.5	<1.0	0	<0.5	<0.5	0	<0.5	<1.0	0
PAH															
	Acenaphthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Acenaphthylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Benz(a)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Benzo(a)pyrene	mg/kg	0.05	<0.5	<0.5	0	<0.5	0.089	0	<0.5	<0.5	0	<0.5	0.064	0
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	1.2	<0.50	82	1.2	1.2	0	1.2	<0.50	82
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	0.6	0	0.6	<0.50	18	0.6	0.6	0	0.6	<0.50	18
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.50	0	<0.5	<0.5	0	<0.5	<0.50	0
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-
	Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	<0.20	-	-	-	-	-	<0.20	-
	Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-
	Chrysene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Fluoranthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	0.11	0	<0.5	<0.5	0	<0.5	0.13	0
	Fluorene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Naphthalene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Phenanthrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.10	0	<0.5	<0.5	0	<0.5	<0.10	0
	Pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	0.13	0	<0.5	<0.5	0	<0.5	0.14	0
	PAHs (Sum of total)	mg/kg	0.05	<0.5	<0.5	0	<0.5	0.33	0	<0.5	<0.5	0	<0.5	0.33	0
Organochlorine Pesticides															
	4,4-DDE	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	a-BHC	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	b-BHC	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	d-BHC	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	g-BHC (Lindane)	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Aldrin	mg/kg	0.05	<0.1	-	-	<0.1	-	-	<0.05	-	-	<0.05	-	-
	Dieldrin	mg/kg	0.05	<0.2	-	-	<0.2	-	-	<0.05	-	-	<0.05	-	-
	Aldrin + Dieldrin	mg/kg	0.05	<0.2	-	-	<0.2	-	-	<0.05	-	-	<0.05	-	-
	Chlordane	mg/kg	0.1	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Chlordane (cis)	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	DDT	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	DDD	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	DDT+DDE+DDD	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endosulfan I	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endosulfan II	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endosulfan sulphate	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endrin	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endrin aldehyde	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Endrin ketone	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Heptachlor	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Heptachlor Epoxide	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Methoxychlor	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-
	Mirex	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Toxaphene	mg/kg	0.5	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
PFAS															
	Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	-	-	-	-	-	-	-	-	-	-	-	-
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
	Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	-	-	-	-	-	-	-	-	-	-	-	-
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
	Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	-	-	-	-	-	-	-	-	-	-	-	-
	Sum of PFAS	mg/kg	0.0001	-	-	-	-	-	-	-	-	-	-	-	-
Chlorinated Benzenes															
	Hexachlorobenzene	mg/kg	0.05	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-

***Elevated RPDs are highlighted (an acceptable RPD rnage of 0% to 30 % has been adopted in accordance with the ASC NEPM [NEPC 2013]).**
****Interlab split samples are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.**

SOIL RPD SUMMARY
Project Number: 67064
Project Name: NPSCY EIS

			Location Code	BH15	BH15		BH15	BH15	
			Field ID	BH15/2_0.3-0.5	DUP13		BH15/2_0.3-0.5	SPLIT13	
			Sample Type	Normal	Intra-Lab		Normal	Inter-Lab	
			Date	13 Jun 2024	13 Jun 2024		13 Jun 2024	13 Jun 2024	
			Lab Report Number	1111027	1111027	RPD	1111027	MFF0429	RPD
		Unit	LOR						
Metals & Metalloids									
	Arsenic	mg/kg	2	3.7	3.9	5	3.7	4.2	13
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.40	0
	Chromium (III+VI)	mg/kg	1	8.5	11	26	8.5	9.2	8
	Copper	mg/kg	1	9.4	11	16	9.4	13	32
	Lead	mg/kg	1	24	22	9	24	21	13
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.10	0
	Nickel	mg/kg	1	6.6	7.1	7	6.6	6.6	0
	Zinc	mg/kg	1	27	37	31	27	31	14
TPHs (NEPC 1999)									
	C6-C9 Fraction	mg/kg	20	<20	-	-	<20	-	-
	C10-C14 Fraction	mg/kg	20	<20	-	-	<20	-	-
	C15-C28 Fraction	mg/kg	50	<50	-	-	<50	-	-
	C29-C36 Fraction	mg/kg	50	<50	-	-	<50	-	-
	C10-C36 Fraction (Sum of Total)	mg/kg	50	<50	-	-	<50	-	-
TRHs (NEPC 2013)									
	C6-C10	mg/kg	20	<20	-	-	<20	-	-
	C10-C16	mg/kg	50	<50	-	-	<50	-	-
	C16-C34	mg/kg	100	<100	-	-	<100	-	-
	C34-C40	mg/kg	100	<100	-	-	<100	-	-
	C10-C40 (Sum of total)	mg/kg	50	<100	-	-	<100	-	-
	F1 (C6-C10 minus BTEX)	mg/kg	20	<20	-	-	<20	-	-
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	-	-	<50	-	-
BTEXN									
	Benzene	mg/kg	0.1	<0.1	-	-	<0.1	-	-
	Toluene	mg/kg	0.1	<0.1	-	-	<0.1	-	-
	Ethylbenzene	mg/kg	0.1	<0.1	-	-	<0.1	-	-
	Xylene (o)	mg/kg	0.1	<0.1	-	-	<0.1	-	-
	Xylene (m & p)	mg/kg	0.2	<0.2	-	-	<0.2	-	-
	Xylene Total	mg/kg	0.3	<0.3	-	-	<0.3	-	-
	Naphthalene_VOC	mg/kg	0.5	<0.5	-	-	<0.5	-	-
PAH									
	Acenaphthene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Acenaphthylene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Anthracene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Benz(a)anthracene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.05	<0.5	-	-	<0.5	-	-
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	-	-	1.2	-	-
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	0.6	-	-	0.6	-	-
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	-	-	<0.5	-	-
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	-	-	<0.5	-	-
	Benzo(b+j+k)fluoranthene	mg/kg	0.2	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	-	-	<0.5	-	-
	Chrysene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Fluoranthene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Fluorene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Naphthalene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Phenanthrene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	Pyrene	mg/kg	0.1	<0.5	-	-	<0.5	-	-
	PAHs (Sum of total)	mg/kg	0.05	<0.5	-	-	<0.5	-	-
Organochlorine Pesticides									
	4,4-DDE	mg/kg	0.05	-	-	-	-	-	-
	a-BHC	mg/kg	0.05	-	-	-	-	-	-
	b-BHC	mg/kg	0.05	-	-	-	-	-	-
	d-BHC	mg/kg	0.05	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.05	-	-	-	-	-	-
	Aldrin	mg/kg	0.05	-	-	-	-	-	-
	Dieldrin	mg/kg	0.05	-	-	-	-	-	-
	Aldrin + Dieldrin	mg/kg	0.05	-	-	-	-	-	-
	Chlordane	mg/kg	0.1	-	-	-	-	-	-
	Chlordane (cis)	mg/kg	0.1	-	-	-	-	-	-
	DDT	mg/kg	0.05	-	-	-	-	-	-
	DDD	mg/kg	0.05	-	-	-	-	-	-
	DDT+DDE+DDD	mg/kg	0.05	-	-	-	-	-	-
	Endosulfan I	mg/kg	0.05	-	-	-	-	-	-
	Endosulfan II	mg/kg	0.05	-	-	-	-	-	-
	Endosulfan sulphate	mg/kg	0.05	-	-	-	-	-	-
	Endrin	mg/kg	0.05	-	-	-	-	-	-
	Endrin aldehyde	mg/kg	0.05	-	-	-	-	-	-
	Endrin ketone	mg/kg	0.05	-	-	-	-	-	-
	Heptachlor	mg/kg	0.05	-	-	-	-	-	-
	Heptachlor Epoxide	mg/kg	0.05	-	-	-	-	-	-
	Methoxychlor	mg/kg	0.05	-	-	-	-	-	-
	Mirex	mg/kg	0.1	-	-	-	-	-	-
	Toxaphene	mg/kg	0.5	-	-	-	-	-	-
PFAS									
	Perfluorobutanoic acid (PFBA)	mg/kg	0.0002	-	-	-	-	-	-
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	-	-	-	-	-	-
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorononanoic acid (PFNA)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorodecanoic acid (PFDA)	mg/kg	0.0005	-	-	-	-	-	-
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0005	-	-	-	-	-	-
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0005	-	-	-	-	-	-
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0005	-	-	-	-	-	-
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	-	-	-	-	-	-
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.001	-	-	-	-	-	-
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.001	-	-	-	-	-	-
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.001	-	-	-	-	-	-
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.001	-	-	-	-	-	-
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	-	-	-	-	-	-
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	-	-	-	-	-	-
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	-	-	-	-	-	-
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	-	-	-	-	-	-
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	-	-	-	-	-	-
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0001	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0002	-	-	-	-	-	-
	Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	-	-	-
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	-	-	-	-	-	-
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.0001	-	-	-	-	-	-
	Sum of WA DWER PFAS (n=10)*	mg/KG	0.01	-	-	-	-	-	-
	Sum of PFAS	mg/kg	0.0001	-	-	-	-	-	-
Chlorinated Benzenes									
	Hexachlorobenzene	mg/kg	0.05	-	-	-	-	-	-

***Elevated RPDs are highlighted (an acceptable RPD rnage of 0% to 30 % has been adopted in accordance with the ASC NEPM [NEPC 2013]).**
****Interlab split samples are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.**

FIELD BLANK SAMPLE RESULTS SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Field ID	FB01	FB02	TB04	FB_13	TB01	TB14
			Sample Type	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
			Date	22 May 2024	23 May 2024	29 May 2024	13 Jun 2024	13 Jun 2024	14 Jun 2024
			Program	Soil	Soil	Soil	Soil	Groundwater	Groundwater
			Lab Report Number	1101684	1101721	1104324	1111027	1107846	1108479
		Unit	LOR						
PFAS									
	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

E.5 Groundwater Investigation Data Quality Assessment (2024)

Table E.5 summarises the QA/QC activities undertaken to ensure integrity of the groundwater data collected for the subject site (Area 1-C), and conformance with the DQIs outlined in **Table E.3**. Any departures from the DQIs are noted in **Table E.5**.

Table E.5: Summary of Groundwater QA/QC Program

QA/QC Item	Detail
QA	
Field procedures	Field procedures were undertaken in accordance with the methodologies and guidelines referenced in **Section 6** as well as JBS&G's standard operating procedures.
Decontamination of field equipment / Use of dedicated equipment	• Downhole drilling equipment was decontaminated using an appropriate detergent (Liquinox), followed by rinsing with deionised water prior to the commencement of drilling at each investigation location to minimise the potential for cross contamination. It is noted that rinsate samples were not collected during installation of groundwater wells, however, this is not considered to have impacted the outcomes of the investigation as the augers were washed at the drillers depot thoroughly, using the same process which is regularly tested in the field by rinsate samples. • Dedicated disposable bailers (i.e. one for each newly installed well) were used to develop the newly installed groundwater wells. • Groundwater sampling equipment used for all groundwater wells (i.e. interface probe and water quality meter) was decontaminated using an appropriate detergent (Liquinox), followed by rinsing with deionised water prior to the commencement of sampling at each well to minimise the potential for cross contamination. A rinsate sample was collected on both days of groundwater sampling to validate decontamination techniques. • Dedicated HDPE tubing (i.e. tubing for each well) was used for groundwater sampling. • A new pair of nitrile gloves was used for sampling at each well.
NATA accredited laboratories	The primary laboratory used was Eurofins and the secondary laboratory used was Envirolab. Both laboratories are NATA accredited for the analyses undertaken.
Sample tracking	Chain of Custody (COC) documentation was used for the transport of all samples to the laboratory. COC documents are included in **Appendix N**.
Sample preservation & storage	Samples were collected in laboratory supplied bottles, with preservation specific to the required analytes. Following sampling, groundwater samples were stored on ice in eskies during the field works and in transit to the laboratory at the end of each day of sampling.
Holding times	All samples were received by the laboratory and analysed within holding time with the exception of the following: • pH which has a very short holding time (6 hours) and hence is also completed as a field test. This was not considered to have an impact on the outcomes of this investigation, given that field pH data is also available; and • TRH following silica gel cleanup, as this was undertaken as subsequent analysis following receipt of initial results. This was not considered to impact the outcomes of the investigation as the elevated TRH results were considered likely to be biogenic based on the site history and results of the soil investigation. Extraction was completed within holding time for all other analytes.
Equipment calibration	The water quality meters were calibrated prior to the commencement of the field works. Calibration documentation is included in **Appendix D**.
Data transcription	Results are supplied by the laboratory as CSV files, which minimises the chance of transcription errors as the data is directly exported into files using ESdat.
Laboratory LORs	The LORs are presented in the results tables and NATA certificated in **Appendix N**. The LORs are appropriate for this assessment with all LORs being less than the adopted criteria outlined in **Section 6.2**.

QA/QC Item	Detail
QC	
Rinsate samples	A rinsate sample was collected on both days of groundwater sampling to validate decontamination procedures by running deionised water over the clean water quality meter probe. The following rinsate samples were collected and analysed: • RB01 was collected on 13 June 2024 – analysed for heavy metals, TRH, BTEXN and PFAS; and • RB12 was collected on 14 June 2024 – analysed for heavy metals, TRH, BTEXN and PFAS. All results were below the laboratory reporting limits. The rinsate sample results are summarised in the attached **Summary Tables**.
Intra-laboratory duplicates	Two intra-laboratory duplicate sample pairs were collected and analysed as part of the groundwater investigation for a total of 15 primary samples. The following intra-laboratory duplicate samples were collected and analysed: • DUP01 was collected with primary sample MW07 – analysed for heavy metals, TRH, BTEXN, PFAS and cyanide; and • DUP02 was collected with primary sample MW06 – analysed for PFAS. The RPD results for the intra-laboratory duplicate sample for groundwater were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of four RPD values (of more than 105 total RPD values), which exceeded the acceptable range for TRH (three fractions) and perfluorobutanesulfonic acid (PFBS). The following was noted: • The elevated RPDs for TRH were due to higher concentrations being reported in the primary sample, noting the intra-laboratory duplicate sample and inter-laboratory split sample reported similar concentrations. The higher concentration (those reported in the primary sample) have been adopted for the assessment of groundwater, noting these concentrations were biogenic with both the primary sample and intra-laboratory duplicate sample reporting TRH below the laboratory LOR following silica gel cleanup. Given the above, this is not considered to impact the outcomes of the groundwater investigation; and • The elevated RPD for PFBS was attributed to the low concentrations reported, noting concentrations of <0.01 µg/L and 0.02 µg/L, respectively were reported in the primary and intra-laboratory duplicate sample. The higher concentration (those reported in the intra-laboratory duplicate sample) have been adopted for the assessment of groundwater. The soil intra-laboratory duplicate sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Inter-laboratory duplicates	Two inter-laboratory split sample pairs were collected and analysed as part of the groundwater investigation for a total of 15 primary samples. The following inter-laboratory split sample pairs were collected and analysed: • SPLIT01 was collected with primary sample MW07 – analysed for heavy metals, TRH, BTEXN, PFAS and cyanide; and • SPLIT02 was collected with primary sample MW06 – analysed for PFAS. The RPD results for the inter-laboratory split sample for groundwater were within the acceptable range of 0 % to 30 % stipulated in the ASC NEPM (NEPC 2013) with the exception of six RPD values (of more than 95 total RPD values), which exceeded the acceptable range for total chromium, TRH (three fractions), naphthalene (and total PAH, due to naphthalene), and perfluoroheptane sulfonic acid (PFHpS) (and sum of PFAS, due to PFHpS). The following was noted: • The elevated RPDs for TRH were due to higher concentrations being reported in the primary sample, noting the inter-laboratory split sample and intra-laboratory duplicate

QA/QC Item	Detail
	sample reported similar concentrations. The higher concentration (those reported in the primary sample) have been adopted for the assessment of groundwater, noting these concentrations were biogenic with both the primary sample and intra-laboratory duplicate sample reporting TRH below the laboratory LOR following silica gel cleanup. Given the above, this is not considered to impact the outcomes of the groundwater investigation; and • The elevated RPDs for total chromium, naphthalene and PFHpS were attributed to the low concentrations reported. The higher concentrations have been adopted for the assessment of groundwater. The soil inter-laboratory split sample pair results and RPD values have been summarised in the attached **Summary Tables**.
Field blank samples	A field blank sample was collected on both days of groundwater sampling for PFAS analysis to ensure PFAS was not introduced via sample handling. The following field blank samples were collected and analysed during the groundwater sampling program: • TB01 was collected on 13 June 2024 – analysed for PFAS; and • TB14 was collected on 14 June 2024 – analysed PFAS. All results were below the laboratory reporting limits. The field blank sample results are summarised in the attached **Summary Tables**.
Laboratory QC	Eurofins (primary laboratory) and Envirolab (secondary laboratory for QC purposes) undertook internal QA procedures and internal QC testing including laboratory duplicate sample analysis, laboratory blank sample analysis and laboratory spike sample analysis. The following was noted: • Duplicate samples – The RPD values reported for all internal duplicate pairs within the acceptable range with the exception of three RPD values in Eurofins laboratory reports, all of which passed Eurofins Environment Testing's QC - Acceptance Criteria which allow a higher RPD when the concentration reported is a smaller multiple of the LOR. • Laboratory blank samples: All results were below the laboratory reporting limits. • Spike samples: The recoveries from the laboratory control spike samples were within the specified range for each contaminant with the exception of two results in Envirolab laboratory reports. In both cases, the laboratory noted this may have been due to suspected non-homogeneity and/or matrix interference effects. In both cases, an acceptable recovery was achieved for the LCS.

RINSATE SAMPLE RESULTS SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Field ID	RB01	RB03	RB04	RB_13	RB_14	RB01	RB12
			Sample Type	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
			Date	22 May 2024	23 May 2024	29 May 2024	13 Jun 2024	14 Jun 2024	13 Jun 2024	14 Jun 2024
			Program	Soil	Soil	Soil	Soil	Soil	Groundwater	Groundwater
			Lab Report Number	1101684	1101721	1104324	1111027	1108473	1107846	1108479
		Unit	LOR							
Metals & Metalloids										
	Arsenic	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Cadmium	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	Chromium (III+VI)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Nickel	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TPHs (NEPC 1999)										
	C6-C9 Fraction	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C10-C14 Fraction	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	C15-C28 Fraction	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C29-C36 Fraction	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C10-C36 Fraction (Sum of Total)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRHs (NEPC 2013)										
	C6-C10	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C10-C16	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	C16-C34	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C34-C40	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	C10-C40 (Sum of total)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	F1 (C6-C10 minus BTEX)	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	F2 (C10-C16 less Naphthalene)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BTEXN										
	Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Ethylbenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (o)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Xylene Total	mg/L	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	Naphthalene_VOC	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PFAS										
	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

GROUNDWATER RPD SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Location Code	MW06	MW06		MW06	MW06		MW07	MW07		MW07	MW07	
			Field ID	MW06	DUP02		MW06	SPLIT02		MW07	DUP01		MW07	SPLIT01	
			Date	14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024	
			Sample Type	Primary	Intra-Lab		Primary	Interlab		Primary	Intra-Lab		Primary	Interlab	
			Lab Report Number	1108479	1108479	RPD	1108479	MFF0280	RPD	1108479	1108479	RPD	1108479	MFF0280	RPD
		Unit	LOR												
Metals & Metalloids															
	Arsenic (filtered)	mg/L	0.001	0.24	-	-	0.24	-	-	0.089	0.089	0	0.089	0.12	30
	Cadmium (filtered)	mg/L	0.0001	<0.01	-	-	<0.01	-	-	<0.001	<0.001	0	<0.001	<0.00050	0
	Chromium (hexavalent)	mg/L	0.005	<0.1	-	-	<0.1	-	-	<0.05	-	-	<0.05	-	-
	Chromium (III+VI) (filtered)	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.01	0.010	0	<0.01	0.019	62
	Copper (filtered)	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.01	<0.01	0	<0.01	<0.0050	0
	Lead (filtered)	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.01	<0.01	0	<0.01	<0.0050	0
	Mercury (filtered)	mg/L	0.00005	<0.01	-	-	<0.01	-	-	<0.0005	<0.001	0	<0.0005	<0.00050	0
	Molybdenum (filtered)	mg/L	0.005	0.68	-	-	0.68	-	-	0.22	-	-	0.22	-	-
	Nickel (filtered)	mg/L	0.001	0.56	-	-	0.56	-	-	0.28	0.29	4	0.28	0.36	25
	Selenium (filtered)	mg/L	0.001	<0.1	-	-	<0.1	-	-	0.10	-	-	0.10	-	-
	Zinc (filtered)	mg/L	0.001	<0.2	-	-	<0.2	-	-	<0.02	<0.01	0	<0.02	<0.0050	0
TRHs (NEPC 2013)															
	C6-C10	mg/L	0.01	<2	-	-	<2	-	-	<2	0.07	0	<2	<0.05	0
	C10-C16	mg/L	0.05	0.33	-	-	0.33	-	-	1.0	0.25	120	1.0	0.27	115
	C16-C34	mg/L	0.1	<0.1	-	-	<0.1	-	-	0.3	0.4	29	0.3	0.4	29
	C34-C40	mg/L	0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C40 (Sum of total)	mg/L	0.05	0.33	-	-	0.33	-	-	1.3	0.65	67	1.3	0.67	64
	F1 (C6-C10 minus BTEX)	mg/L	0.01	<2	-	-	<2	-	-	<2	0.07	0	<2	<0.05	0
	F2 (C10-C16 less Naphthalene)	mg/L	0.05	0.33	-	-	0.33	-	-	1	0.25	120	1	0.27	115
BTEXN															
	Benzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	<0.001	0	<0.1	<0.0050	0
	Toluene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	0.001	0	<0.1	<0.0050	0
	Ethylbenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	<0.001	0	<0.1	<0.0050	0
	Xylene (o)	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	<0.001	0	<0.1	<0.0050	0
	Xylene (m & p)	mg/L	0.002	<0.2	-	-	<0.2	-	-	<0.2	<0.002	0	<0.2	<0.01	0
	Xylene Total	mg/L	0.003	<0.3	-	-	<0.3	-	-	<0.3	<0.003	0	<0.3	<0.015	0
	Naphthalene_VOC	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	<0.01	0	<0.1	<0.0050	0
PAH															
	Acenaphthene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Acenaphthylene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Anthracene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Benz(a)anthracene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Benzo(a)pyrene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Benzo(b+j)fluoranthene	mg/L	0.001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	-	-
	Benzo(b+j+k)fluoranthene	mg/L	0.0002	-	-	-	-	-	-	-	-	-	-	<0.00020	-
	Benzo(g,h,i)perylene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Benzo(k)fluoranthene	mg/L	0.001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	-	-
	Chrysene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Dibenz(a,h)anthracene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Fluoranthene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Fluorene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Indeno(1,2,3-c,d)pyrene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Naphthalene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	0.001	<0.001	0	0.001	0.0018	57
	Phenanthrene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	Pyrene	mg/L	0.0001	<0.001	-	-	<0.001	-	-	<0.001	<0.001	0	<0.001	<0.00010	0
	PAHs (Sum of total)	mg/L	0.0001	<0.001	-	-	<0.001	-	-	0.001	<0.001	0	0.001	0.0018	57
Organochlorine Pesticides															
	Pentachlorophenol	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	4,4-DDE	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	a-BHC	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	b-BHC	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	d-BHC	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	g-BHC (Lindane)	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Aldrin	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Dieldrin	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Aldrin + Dieldrin	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Chlordane	mg/L	0.002	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-
	DDT	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	DDD	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	DDT+DDE+DDD	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endosulfan I	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endosulfan II	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endosulfan sulphate	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endrin	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endrin aldehyde	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Endrin ketone	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Heptachlor	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Heptachlor Epoxide	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Methoxychlor	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
	Toxaphene	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
Chlorinated Alkanes															
	1,1,1,2-tetrachloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,1,1-trichloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,1,2,2-tetrachloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,1,2-trichloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,1-dichloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,2,3-trichloropropane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,2-dichloroethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,2-dichloropropane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,3-dichloropropane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Bromochloromethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Carbon tetrachloride	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Chloroethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Chloromethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Dichlorodifluoromethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Dichloromethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Trichlorofluoromethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
Chlorinated Alkenes															
	1,1-dichloroethene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	3-chloropropene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	4-chlorotoluene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	cis-1,2-dichloroethene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	cis-1,3-dichloropropene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Tetrachloroethene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	trans-1,2-dichloroethene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	trans-1,3-dichloropropene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Trichloroethene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Vinyl Chloride	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
Solvents															
	Acetone	mg/L	0.005	2.2	-	-	2.2	-	-	2.0	-	-	2.0	-	-
	MTBE	mg/L	0.001	-	-	-	-	-	-	-	-	-	-	<0.0050	-
Polychlorinated Biphenyls															
	Arochlor 1016	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1221	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1232	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1242	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1248	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1254	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	Arochlor 1260	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-
	PCBs (Sum of total)	mg/L	0.005	<0.005	-	-	<0.005	-	-	<0.005	-	-	<0.005	-	-

GROUNDWATER RPD SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Location Code	MW06	MW06		MW06	MW06		MW07	MW07		MW07	MW07	
			Field ID	MW06	DUP02		MW06	SPLIT02		MW07	DUP01		MW07	SPLIT01	
			Date	14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024	
			Sample Type	Primary	Intra-Lab		Primary	Interlab		Primary	Intra-Lab		Primary	Interlab	
			Lab Report Number	1108479	1108479	RPD	1108479	MFF0280	RPD	1108479	1108479	RPD	1108479	MFF0280	RPD
		Unit	LOR												
Phenols															
	2,4,5-trichlorophenol	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	2,4,6-trichlorophenol	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	2,4-dichlorophenol	mg/L	0.003	<0.003	-	-	<0.003	-	-	<0.003	-	-	<0.003	-	-
	2,4-dimethylphenol	mg/L	0.003	<0.003	-	-	<0.003	-	-	<0.003	-	-	<0.003	-	-
	2,4-dinitrophenol	mg/L	0.03	<0.03	-	-	<0.03	-	-	<0.03	-	-	<0.03	-	-
	2,6-dichlorophenol	mg/L	0.003	<0.003	-	-	<0.003	-	-	<0.003	-	-	<0.003	-	-
	2-chlorophenol	mg/L	0.003	<0.003	-	-	<0.003	-	-	<0.003	-	-	<0.003	-	-
	2-Methylphenol	mg/L	0.003	0.005	-	-	0.005	-	-	0.17	-	-	0.17	-	-
	2-nitrophenol	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	3&4-Methylphenol (m&p-cresol)	mg/L	0.006	<0.006	-	-	<0.006	-	-	<0.006	-	-	<0.006	-	-
	4,6-Dinitro-2-methylphenol	mg/L	0.03	<0.03	-	-	<0.03	-	-	<0.03	-	-	<0.03	-	-
	4,6-Dinitro-o-cyclohexyl phenol	mg/L	0.1	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	4-Chloro-3-Methylphenol	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	4-nitrophenol	mg/L	0.03	<0.03	-	-	<0.03	-	-	<0.03	-	-	<0.03	-	-
	Cresol Total	mg/L	0.01	<0.01	-	-	<0.01	-	-	0.17	-	-	0.17	-	-
	Phenol	mg/L	0.003	0.032	-	-	0.032	-	-	0.12	-	-	0.12	-	-
	Tetrachlorophenols	mg/L	0.03	<0.03	-	-	<0.03	-	-	<0.03	-	-	<0.03	-	-
	Phenols (Total Halogenated)	mg/L	0.01	<0.01	-	-	<0.01	-	-	<0.01	-	-	<0.01	-	-
	Phenols (Total Non Halogenated)	mg/L	0.1	<0.1	-	-	<0.1	-	-	0.3	-	-	0.3	-	-
PFAS															
	Perfluorobutanoic acid (PFBA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.40	0	<0.05	<0.05	0	<0.05	<0.20	0
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.02	0.02	0	0.02	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.02	0.02	0	0.02	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.03	0.03	0	0.03	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.50	0	<0.01	<0.01	0	<0.01	<0.50	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<1.0	0	<0.01	<0.01	0	<0.01	<1.0	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<5.0	0	<0.01	<0.01	0	<0.01	<5.0	0
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<1.0	0	<0.05	<0.05	0	<0.05	<1.0	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.50	0	<0.05	<0.05	0	<0.05	<0.50	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<1.0	0	<0.05	<0.05	0	<0.05	<1.0	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.50	0	<0.05	<0.05	0	<0.05	<0.50	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<5.0	0	<0.05	<0.05	0	<0.05	<5.0	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.20	0	<0.05	<0.05	0	<0.05	<0.20	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.20	0	<0.05	<0.05	0	<0.05	<0.20	0
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	<0.01	0	<0.01	-	-
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.10	0	<0.01	0.02	67	<0.01	<0.10	0
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	0.03	0.03	0	0.03	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	0.76	195	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	0.03	0.03	0	0.03	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	<0.05	0	<0.05	<0.10	0
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.20	0	<0.01	<0.01	0	<0.01	<0.20	0
	Sum of PFHxS and PFOS	µg/L	0.01	0.06	0.06	0	0.06	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	0.09	0.09	0	0.09	-	-	<0.01	<0.01	0	<0.01	-	-
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	0.06	0.06	0	0.06	<0.10	0	<0.01	<0.01	0	<0.01	<0.10	0
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	0.13	0.13	0	0.13	-	-	<0.05	<0.05	0	<0.05	-	-
	Sum of PFAS	µg/L	0.01	0.13	0.13	0	0.13	0.76	142	<0.1	<0.1	0	<0.1	<0.10	0
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	<0.01	0	<0.01	-	-
	13C4-PFOS	%		-	-	-	-	121	-	-	-	-	-	121	-
MAH															
	1,2,4-trimethylbenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,3,5-trimethylbenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Styrene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Total MAH	mg/L	0.003	<0.2	-	-	<0.2	-	-	<0.2	-	-	<0.2	-	-
	Bromobenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Isopropylbenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
Miscellaneous Hydrocarbons															
	Methane	mg/L	0.05	1.5	-	-	1.5	-	-	13	-	-	13	-	-
	1,2-dibromoethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Bromomethane	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Dibromomethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Iodomethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	4-Methyl-2-pentanone	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Methyl Ethyl Ketone	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
Chlorinated Benzenes															
	1,2-Dichlorobenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,3-dichlorobenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	1,4-dichlorobenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Chlorobenzene	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Hexachlorobenzene	mg/L	0.0002	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-	<0.0002	-	-
Trihalomethanes															
	Dibromochloromethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Chloroform	mg/L	0.005	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Tribromomethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
	Bromodichloromethane	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
Herbicides & Fungicides															
	Dinoseb	mg/L	0.1	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
Organic Sulfur Compounds															
	Carbon disulfide	mg/L	0.001	<0.1	-	-	<0.1	-	-	<0.1	-	-	<0.1	-	-
Non-Metallic Inorganics															
	Cyanide Total	mg/L	0.004	0.057	-	-	0.057	-	-	<0.05	<0.05	0	<0.05	0.011	0
EPA VIC - IWRG621															
	Chlorinated Hydrocarbons EPAVic	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Other Chlorinated Hydrocarbons EPAVic	mg/L	0.005	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-
	Organochlorine Pesticides EPAVic	mg/L	0.002	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-
	Other Organochlorine Pesticides EPAVic	mg/L	0.002	<0.002	-	-	<0.002	-	-	<0.002	-	-	<0.002	-	-

GROUNDWATER RPD SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

				Location Code	MW06	MW06		MW06	MW06		MW07	MW07		MW07	MW07	
				Field ID	MW06	DUP02		MW06	SPLIT02		MW07	DUP01		MW07	SPLIT01	
				Date	14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024		14 Jun 2024	14 Jun 2024	
				Sample Type	Primary	Intra-Lab		Primary	Interlab		Primary	Intra-Lab		Primary	Interlab	
				Lab Report Number	1108479	1108479	RPD	1108479	MFF0280	RPD	1108479	1108479	RPD	1108479	MFF0280	RPD
		Unit	LOR													
Organotin																
	Monobutyltin	µg/L	7.5	<7.5	-	-	<7.5	-	-	<7.5	-	-	<7.5	-	-
	Monobutyltin (as Sn)	µg/L	5	<5	-	-	<5	-	-	<5	-	-	<5	-	-
	Dibutyltin	µg/L	10	<10	-	-	<10	-	-	<10	-	-	<10	-	-
	Dibutyltin (as Sn)	µg/L	5	<5	-	-	<5	-	-	<5	-	-	<5	-	-
	Tributyltin	µg/L	12.5	<12.5	-	-	<12.5	-	-	<12.5	-	-	<12.5	-	-
	Tributyltin as SN	µg/L	5	<5	-	-	<5	-	-	<5	-	-	<5	-	-
	Tributyltin oxide (TBTO)	µg/L	12.5	<12.5	-	-	<12.5	-	-	<12.5	-	-	<12.5	-	-

***Elevated RPDs are highlighted (an acceptable RPD rnage of 0% to 30 % has been adopted in accordance with the ASC NEPM [NEPC 2013]).**

****Interlab split samples are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.**

FIELD BLANK SAMPLE RESULTS SUMMARY

Project Number: 67064

Project Name: NPSCY EIS

			Field ID	FB01	FB02	TB04	FB_13	TB01	TB14
			Sample Type	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
			Date	22 May 2024	23 May 2024	29 May 2024	13 Jun 2024	13 Jun 2024	14 Jun 2024
			Program	Soil	Soil	Soil	Soil	Groundwater	Groundwater
			Lab Report Number	1101684	1101721	1104324	1111027	1107846	1108479
		Unit	LOR						
PFAS									
	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sum of WA DWER PFAS (n=10)*	UG/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Sum of PFAS	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Appendix G Site Specific EIL Calculation Spreadsheets

Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
2.5
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	#NUM!	95
Urban residential and open public spaces	#NUM!	270
Commercial and industrial	#NUM!	430

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
27
Enter soil pH (calcium chloride method) (values from 1 to 14)
7.5
Enter organic carbon content (%OC) (values from 0 to 50%)
0.1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Cu soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	#NUM!	35
Urban residential and open public spaces	#NUM!	65
Commercial and industrial	#NUM!	90

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
27
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Ni soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	#NUM!	60
Urban residential and open public spaces	#NUM!	330
Commercial and industrial	#NUM!	560

Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
27
Enter soil pH (calcium chloride method) (values from 1 to 14)
7.5
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
or for aged ABCs only
Enter State (or closest State)
SA
Enter traffic volume (high or low)
low

Outputs		
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	#NUM!	250
Urban residential and open public spaces	#NUM!	940
Commercial and industrial	#NUM!	1400

Appendix H Soil Laboratory Certificates of Analysis and Chain of Custody Documentation

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 23/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins					
SB01_0-0.2	Soil	22/05/2023		soil jar	1	-					X		X											
SB01_0.2-0.4	Soil	22/05/2023		soil jar	1	-																		
SB01_0.4-0.6	Soil	22/05/2023		soil jar	1	-		X																
SB01_0.6-1.0	Soil	22/05/2023		soil jar	1	-																		
SB02_0-0.2	Soil	22/05/2023		soil jar	1	-		X																
SB02_0.2-0.5	Soil	22/05/2023		soil jar	1	-																		
SB02_0.8-1.0	Soil	22/05/2023		soil jar	1	-																		
SB03_0-0.2	Soil	22/05/2023		soil jar	1	-		X			X													
SB03_0.2-0.4	Soil	22/05/2023		soil jar	1	-																		
SB03_0.4-0.6	Soil	22/05/2023		soil jar	1	-																		
SB03_0.6-1.0	Soil	22/05/2023		soil jar	1	-																		
SB04_0-0.2	Soil	22/05/2023		soil jar	1	-							X											
SB04_0.2-0.4	Soil	22/05/2023		soil jar	1	-												X	X					
SB05_0-0.2	Soil	22/05/2023		soil jar	1	-		X																
SB05_0.2-0.6	Soil	22/05/2023		soil jar	1	-																		
SB05_0.6-1.0	Soil	22/05/2023		soil jar	1	-																		
SB06_0-0.2	Soil	22/05/2023		soil jar	1	-							X											
SB06_0.2-0.4	Soil	22/05/2023		soil jar	1	-																		
SB06_0.6-0.8	Soil	22/05/2023		soil jar	1	-																		
SB06_0.8-1.0	Soil	22/05/2023		soil jar	1	-																		
SB07_0-0.2	Soil	22/05/2023		soil jar	1	-		X						X										
SB07_0.2-0.5	Soil	22/05/2023		soil jar	1	-		X										X	X					
SB07_0.5-0.8	Soil	22/05/2023		soil jar	1	-																		
SB07_0.8-1.0	Soil	22/05/2023		soil jar	1	-																		
SB09_0-0.2	Soil	22/05/2023		soil jar	1	-							X					X	X					
SB09_0.3-0.5	Soil	22/05/2023		soil jar	1	-		X						X										
SB09_0.6-0.8	Soil	22/05/2023		soil jar	1	-																		
SB09_0.8-1.0	Soil	22/05/2023		soil jar	1	-																		
SB12_0-0.2	Soil	22/05/2023		soil jar	1	-		X																
SB12_0.2-0.6	Soil	22/05/2023		soil jar	1	-																		
SB12_0.6-1.0	Soil	22/05/2023		soil jar	1	-																		

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

NOTES

****Please send SPLIT01, SPLIT02, SPLIT03 and SPLIT04 to Envirolab for analysis with copy of this COC**

4972922
Jake

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 23/5/23	NAME: Michael Young DATE: 24/5/23
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Eurofins TIME: 9:00am
NAME:	DATE:	NAME: DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, tdough@jbsg.com.au

ANALYSIS REQUIRED

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB13_0-0.4	Soil	22/05/2023		soil jar	1	-					X		X		X		X						
SB13_0.4-0.8	Soil	22/05/2023		soil jar	1	-																	
SB13_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
SB14_0-0.2	Soil	22/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-		X	X	X													
SB14_0.5-0.8	Soil	22/05/2023		soil jar	1	-																	
SB14_0.8-1.0	Soil	22/05/2023		soil jar	1	-		X															
SB15_0-0.2	Soil	22/05/2023		soil jar	1	-		X			X												
SB15_0.2-0.4	Soil	22/05/2023		soil jar	1	-		X															
SB15_0.6-1.0	Soil	22/05/2023		soil jar	1	-																	
SB17_0-0.2	Soil	22/05/2023		soil jar	1	-																	
SB17_0.2-0.5	Soil	22/05/2023		soil jar	1	-		X															
SB17_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
SB20_0-0.2	Soil	22/05/2023		soil jar	1	-		X															
SB20_0.2-0.5	Soil	22/05/2023		soil jar	1	-																	
SB20_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
DUP01	Soil	22/05/2023		soil jar	1	-		X															
SPLIT01	Soil	22/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB01	Water	22/05/2023		2xvials, 1x amber, 1x HM	4	-	X																
SB16_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										
SB16_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB16_0.7-1.0	Soil	23/05/2023		soil jar	1	-							X		X		X						
SB18_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X		X		X						
SB18_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB18_0.7-1.0	Soil	23/05/2023		soil jar, SPOCAS bag	2	-				X													
SB19_0-0.2	Soil	23/05/2023		soil jar	1	-		X															
SB19_0.2-0.5	Soil	23/05/2023		soil jar	1	-		X			X												
SB19_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB20_0-0.2	Soil	23/05/2023		soil jar	1	-		X															
SB20_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB20_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB21_0-0.2	Soil	23/05/2023		soil jar	1	-							X										

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 23/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other. **'NOTES**

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins			
SB21_0.3-0.5	Soil	23/05/2023		soil jar	1	-					X		X										
SB21_0.7-1.0	Soil	23/05/2023		soil jar	1	-		X															
SB22_0-0.2	Soil	23/05/2023		soil jar	1	-																	
SB22_0.5-0.7	Soil	23/05/2023		soil jar	1	-		X															
SB22_0.8-1.0	Soil	23/05/2023		soil jar	1	-																	
SB23_0-0.2	Soil	23/05/2023		soil jar	1	-					X		X										
SB23_0.5-0.8	Soil	23/05/2023		soil jar	1	-																	
SB23_0.9-1.0	Soil	23/05/2023		soil jar	1	-		X															
SB24_0-0.2	Soil	23/05/2023		soil jar	1	-							X		X		X						
SB24_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB24_0.7-1.0	Soil	23/05/2023		soil jar	1	-		X															
SB25_0-0.3	Soil	23/05/2023		soil jar	1	-							X		X		X						
SB25_0.5-0.7	Soil	23/05/2023		soil jar	1	-																	
SB25_0.8-1.0	Soil	23/05/2023		soil jar	1	-																	
SB26_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-		X	X		X												
SB26_0.2-0.5	Soil	23/05/2023		soil jar	1	-		X															
SB26_0.7-1.0	Soil	23/05/2023		soil jar, SPOCAS bag	2	-		X		X													
SB27_0-0.2	Soil	23/05/2023		soil jar	1	-							X										
SB27_0.6-0.8	Soil	23/05/2023		soil jar	1	-																	
SB27_0.8-1.0	Soil	23/05/2023		soil jar	1	-																	
SB28_0-0.3	Soil	23/05/2023		soil jar, PFAS jar	2	-			X		X		X										
SB28_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X															
SB28_0.7-1.0	Soil	23/05/2023		soil jar, SPOCAS bag	2	-				X			X		X		X						
SB29_0-0.2	Soil	23/05/2023		soil jar	1	-		X			X												
SB29_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB29_0.7-1.0	Soil	23/05/2023		soil jar	1	-							X		X		X						
SB32_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X	X		X	X				X	X				
SB32_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB32_0.8-1.0	Soil	23/05/2023		soil jar	1	-																	
SB35_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X				X	X				
SB35_0.5-0.7	Soil	23/05/2023		soil jar	1	-																	

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 23/5/23	NAME : Michael Young DATE: 24/5/23	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Eurofins TIME: 9:00AM	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, ktough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SB35_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB37_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB37_0.4-0.6	Soil	23/05/2023		soil jar	1	-												X	X				
SB37_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB39_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB39_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X										X	X				
SB39_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB40_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X				X	X				
SB40_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X															
SB40_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
DUP02	Soil	23/05/2023		soil jar	1	-		X															
SPLIT02	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP03	Soil	23/05/2023		soil jar	1	-		X															
SPLIT03	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										
SPLIT04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB02	Water	23/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB01	Water	23/05/2023		1x PFAS	1	-			X														
				TOTAL			2	33	14	9	11	0	23	7	6	0	6	8	8	0	0	0	

• On ice, in fridge 1.9 + 0.3

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PROJECT INFORMATION

Date Received: 23/5/23

Company: JBSG

Contact person: Kate Lough.

Contact Number: 0433 683 378

Contact E-mail: klough@jbsg.com.au

Project Name/site: 64648 Osborne Soils.

Project Number: 64648

COC: Attached ☐
E-mailed ☐
Not received ☑

- on ice
- 1.9 + 0.3 = 2.2°C

Delivered 15:30, 3 esdats + SPOCAS (in Freezer)

KL To provide COC Tomorrow.

Tyrone Gowans

From: Amy Meunier
Sent: Thursday, 25 May 2023 10:29 AM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples Jack dropped off yesterday arvo (JBS&G job 64648)
Attachments: COC_64648S1_Eurofins.xlsx

Follow Up Flag: Follow up
Flag Status: Completed

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Tyrone – COC attached for JBSG transit samples

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, 24 May 2023 1:00 PM
To: Amy Meunier <AmyMeunier@eurofins.com>
Cc: Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples Jack dropped off yesterday arvo (JBS&G job 64648)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy,

Please find attached completed COC for samples Jack dropped off to Parimal yesterday arvo. Please note the following:

- Some samples are for SPOCAS analysis (short holding time)
- SPLIT01, SPLIT02, SPLIT03 and SPLIT04 are to be sent to Envirolab for analysis (with copy of the COC please)

Can you please confirm whether the samples arrived in the lab today?

Thanks,
Kate

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

6

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 23/5/23	NAME : Michael Young DATE: 24/5/23	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Environmental TIME: 9:00am	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				***NOTES**
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO	pH field																	
SB13_0-0.4	Soil	22/05/2023		soil jar	1	-					X		X		X		X						
SB13_0.4-0.8	Soil	22/05/2023		soil jar	1	-																	
SB13_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
SB14_0-0.2	Soil	22/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-		X	X	X													
SB14_0.5-0.8	Soil	22/05/2023		soil jar	1	-																	
SB14_0.8-1.0	Soil	22/05/2023		soil jar	1	-		X															
SB15_0-0.2	Soil	22/05/2023		soil jar	1	-		X			X												
SB15_0.2-0.4	Soil	22/05/2023		soil jar	1	-		X															
SB15_0.6-1.0	Soil	22/05/2023		soil jar	1	-																	
SB17_0-0.2	Soil	22/05/2023		soil jar	1	-																	
SB17_0.2-0.5	Soil	22/05/2023		soil jar	1	-		X															
SB17_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
SB20_0-0.2	Soil	22/05/2023		soil jar	1	-		X															
SB20_0.2-0.5	Soil	22/05/2023		soil jar	1	-																	
SB20_0.8-1.0	Soil	22/05/2023		soil jar	1	-																	
DUP01	Soil	22/05/2023		soil jar	1	-		X															
SPLIT01	Soil	22/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB01	Water	22/05/2023		2xvials, 1x amber, 1x HM	4	-	X																
SB16_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										
SB16_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB16_0.7-1.0	Soil	23/05/2023		soil jar	1	-							X		X		X						
SB18_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X		X		X						
SB18_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB18_0.7-1.0	Soil	23/05/2023		soil jar, SPOCAS bag	2	-				X													
SB19_0-0.2	Soil	23/05/2023		soil jar	1	-		X															
SB19_0.2-0.5	Soil	23/05/2023		soil jar	1	-		X			X												
SB19_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB20_0-0.2	Soil	23/05/2023		soil jar	1	-		X															
SB20_0.3-0.5	Soil	23/05/2023		soil jar	1	-																	
SB20_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB21_0-0.2	Soil	23/05/2023		soil jar	1	-							X										

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

6

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 23/5/23	NAME : Michael Young DATE: 24/5/23
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Eurofins TIME: 9:00am
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				
SB35_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB37_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB37_0.4-0.6	Soil	23/05/2023		soil jar	1	-												X	X				
SB37_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB39_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB39_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X										X	X				
SB39_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB40_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X				X	X				
SB40_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X															
SB40_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
DUP02	Soil	23/05/2023		soil jar	1	-		X															
SPLIT02	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP03	Soil	23/05/2023		soil jar	1	-		X															
SPLIT03	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										
SPLIT04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB02	Water	23/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB01	Water	23/05/2023		1x PFAS	1	-			X														
						TOTAL	2	33	14	9	11	0	23	7	6	0	6	8	8	0	0	0	

Container Type and Preservative Codes:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

*NOTES

* On ice, in fridge 1.9 + 0.3

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

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43 Detroit Drive
Rolleston,
Christchurch 7675
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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS OSBOURNE
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	May 24, 2023 1:00 PM
Eurofins reference	992922

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

All SB20 samples listed twice on COC.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **992922-S**
Project name URPS OSBOURNE
Project ID 64648
Received Date May 24, 2023

Client Sample ID			**SB01_0-0.2**	**SB01_0.4-0.6**	**SB02_0-0.2**	**SB03_0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-My0063697**	**M23-My0063698**	**M23-My0063699**	**M23-My0063700**
Date Sampled			**May 22, 2023**	**May 22, 2023**	**May 22, 2023**	**May 22, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	86	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			SB01_0-0.2	SB01_0.4-0.6	SB02_0-0.2	SB03_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063697	M23-My0063698	M23-My0063699	M23-My0063700
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	86	-	-	-
p-Terphenyl-d14 (surr.)	1	%	75	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	7.9	-	-	8.1
Heavy Metals						
Arsenic	2	mg/kg	3.7	2.8	5.0	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	5.9	11	6.5
Copper	5	mg/kg	6.6	< 5	10	5.8
Lead	5	mg/kg	18	7.1	55	9.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.4	5.5	5.6	< 5
Zinc	5	mg/kg	32	15	100	20
Sample Properties						
% Moisture	1	%	5.5	20	6.1	2.9

Client Sample ID			SB04_0-0.2	SB04_0.2-0.4	SB05_0-0.2	SB06_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063701	M23-My0063702	M23-My0063703	M23-My0063704
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2

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Client Sample ID			SB04_0-0.2	SB04_0.2-0.4	SB05_0-0.2	SB06_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063701	M23-My0063702	M23-My0063703	M23-My0063704
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	75	-	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	-	-	54
p-Terphenyl-d14 (surr.)	1	%	84	-	-	104
Cyanide (total)	5	mg/kg	-	< 5	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	2.4	8.4
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	6.0	22
Copper	5	mg/kg	< 5	-	5.3	15
Lead	5	mg/kg	< 5	-	28	7.9
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	13
Zinc	5	mg/kg	6.2	-	69	20
Sample Properties						
% Moisture	1	%	9.7	23	2.9	12
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-

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Client Sample ID			SB04_0-0.2	SB04_0.2-0.4	SB05_0-0.2	SB06_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063701	M23-My0063702	M23-My0063703	M23-My0063704
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Organotins						
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	110	-	-

Client Sample ID			SB07_0-0.2	SB07_0.2-0.5	SB09_0-0.2	SB09_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063705	M23-My0063706	M23-My0063707	M23-My0063708
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	73	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB07_0-0.2	SB07_0.2-0.5	SB09_0-0.2	SB09_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063705	M23-My0063706	M23-My0063707	M23-My0063708
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	54	-
p-Terphenyl-d14 (surr.)	1	%	-	-	60	-
Cyanide (total)	5	mg/kg	-	< 5	< 5	-
Heavy Metals						
Arsenic	2	mg/kg	6.5	10	6.5	6.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	56	85	70	51
Copper	5	mg/kg	28	50	33	24
Lead	5	mg/kg	16	36	22	12
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	25	39	30	23
Zinc	5	mg/kg	52	110	64	34
Sample Properties						
% Moisture	1	%	23	41	24	23
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	< 1.25	-
Dibutyltin	1	mg/kg	-	< 1	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Monobutyltin	0.75	mg/kg	-	< 0.75	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	104	109	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5

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Client Sample ID			SB07_0-0.2	SB07_0.2-0.5	SB09_0-0.2	SB09_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063705	M23-My0063706	M23-My0063707	M23-My0063708
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	62	-	-	64
Toluene-d8 (surr.)	1	%	69	-	-	78

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Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	61	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	58	-	-
p-Terphenyl-d14 (surr.)	1	%	-	58	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	6.5	-	-

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Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.1	3.8	3.8	3.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	7.8	18	16
Copper	5	mg/kg	15	< 5	11	9.8
Lead	5	mg/kg	14	< 5	12	8.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	< 5	8.8	7.9
Zinc	5	mg/kg	29	12	33	22
Sample Properties						
% Moisture	1	%	9.8	7.4	8.9	13
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	58	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-

eurofins | Environment Testing

Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	76	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	58	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.3	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.7	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-

eurofins | Environment Testing

Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.053	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.17	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.12	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	75	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.24	-
Calcium - Peroxide	0.005	% Ca	-	-	6.1	-
Calcium - Acid Reacted	0.005	% Ca	-	-	5.9	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	4.7	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	2900	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.047	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.65	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.60	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.79	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	490	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	18	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	5.6	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	3500	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	190	-
>2mm Fraction	0.005	g	-	-	43	-
Analysed Material	0.1	%	-	-	81	-
Extraneous Material	0.1	%	-	-	19	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-

eurofins | Environment Testing

Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	96	-
13C5-PFPeA (surr.)	1	%	-	-	126	-
13C5-PFHxA (surr.)	1	%	-	-	123	-
13C4-PFHpA (surr.)	1	%	-	-	117	-
13C8-PFOA (surr.)	1	%	-	-	113	-
13C5-PFNA (surr.)	1	%	-	-	110	-
13C6-PFDA (surr.)	1	%	-	-	129	-
13C2-PFUnDA (surr.)	1	%	-	-	79	-
13C2-PFDoDA (surr.)	1	%	-	-	101	-
13C2-PFTeDA (surr.)	1	%	-	-	129	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	80	-
D3-N-MeFOSA (surr.)	1	%	-	-	132	-
D5-N-EtFOSA (surr.)	1	%	-	-	134	-
D7-N-MeFOSE (surr.)	1	%	-	-	106	-
D9-N-EtFOSE (surr.)	1	%	-	-	105	-
D5-N-EtFOSAA (surr.)	1	%	-	-	128	-
D3-N-MeFOSAA (surr.)	1	%	-	-	124	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	92	-
18O2-PFHxS (surr.)	1	%	-	-	108	-
13C8-PFOS (surr.)	1	%	-	-	91	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-

eurofins | Environment Testing

Client Sample ID			SB12_0-0.2	SB13_0-0.4	SB14_0-0.2	SB14_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063709	M23-My0063710	M23-My0063711	M23-My0063712
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	-	-	159	-
13C2-6:2 FTSA (surr.)	1	%	-	-	109	-
13C2-8:2 FTSA (surr.)	1	%	-	-	135	-
13C2-10:2 FTSA (surr.)	1	%	-	-	86	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Client Sample ID			SB15_0-0.2	SB15_0.2-0.4	SB17_0.2-0.5	SB20_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063713	M23-My0063714	M23-My0063715	M23-My0063716
Date Sampled			May 22, 2023	May 22, 2023	May 22, 2023	May 22, 2023
Test/Reference	LOR	Unit				
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	7.8	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.8	4.8	2.8	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	18	6.9	10.0
Copper	5	mg/kg	21	16	< 5	7.4
Lead	5	mg/kg	18	15	< 5	8.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	7.7	< 5	< 5
Zinc	5	mg/kg	55	42	< 5	21
Sample Properties						
% Moisture	1	%	15	15	4.7	12

Client Sample ID			DUP01	SB16_0-0.2	SB16_0.7-1.0	SB18_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063717	M23-My0063719	M23-My0063720	M23-My0063721
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	140	< 50
TRH C29-C36	50	mg/kg	-	< 50	120	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	260	< 50
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50

eurofins | Environment Testing

Client Sample ID			DUP01	SB16_0-0.2	SB16_0.7-1.0	SB18_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063717	M23-My0063719	M23-My0063720	M23-My0063721
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C16-C34	100	mg/kg	-	< 100	240	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	240	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	71	67	71
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	0.7	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.3	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	0.6	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	0.9	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	0.8	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	3.4	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	60	74	75
p-Terphenyl-d14 (surr.)	1	%	-	83	73	66
Heavy Metals						
Arsenic	2	mg/kg	9.3	2.6	11	2.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	57	7.1	13	8.0
Copper	5	mg/kg	45	< 5	110	< 5
Lead	5	mg/kg	41	< 5	160	< 5
Mercury	0.1	mg/kg	0.3	< 0.1	3.1	< 0.1
Nickel	5	mg/kg	26	< 5	6.1	< 5
Zinc	5	mg/kg	110	7.2	170	8.2
Sample Properties						
% Moisture	1	%	31	6.5	13	6.3

eurofins | Environment Testing

Client Sample ID			DUP01	SB16_0-0.2	SB16_0.7-1.0	SB18_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063717	M23-My0063719	M23-My0063720	M23-My0063721
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	104	98
Tetrachloro-m-xylene (surr.)	1	%	-	-	75	65
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Bolstar	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Coumaphos	2	mg/kg	-	-	< 2	< 2
Demeton-S	0.2	mg/kg	-	-	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	-	-	< 0.2	< 0.2
Diazinon	0.2	mg/kg	-	-	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	-	-	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	-	-	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	-	-	< 0.2	< 0.2
EPN	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethion	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Malathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Merphos	0.2	mg/kg	-	-	< 0.2	< 0.2

eurofins | Environment Testing

Client Sample ID			DUP01	SB16_0-0.2	SB16_0.7-1.0	SB18_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063717	M23-My0063719	M23-My0063720	M23-My0063721
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Monocrotophos	2	mg/kg	-	-	< 2	< 2
Naled	0.2	mg/kg	-	-	< 0.2	< 0.2
Omethoate	2	mg/kg	-	-	< 2	< 2
Phorate	0.2	mg/kg	-	-	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	-	-	< 0.2	< 0.2
Ronnel	0.2	mg/kg	-	-	< 0.2	< 0.2
Terbufos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	-	-	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	96	101
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	104	98
Tetrachloro-m-xylene (surr.)	1	%	-	-	75	65
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	92	-	88
13C5-PFPeA (surr.)	1	%	-	116	-	111
13C5-PFHxA (surr.)	1	%	-	111	-	105
13C4-PFHpA (surr.)	1	%	-	105	-	102
13C8-PFOA (surr.)	1	%	-	107	-	98
13C5-PFNA (surr.)	1	%	-	105	-	102
13C6-PFDA (surr.)	1	%	-	118	-	104
13C2-PFUnDA (surr.)	1	%	-	84	-	70
13C2-PFDoDA (surr.)	1	%	-	92	-	83
13C2-PFTeDA (surr.)	1	%	-	114	-	100

eurofins | Environment Testing

Client Sample ID			DUP01	SB16_0-0.2	SB16_0.7-1.0	SB18_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063717	M23-My0063719	M23-My0063720	M23-My0063721
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	87	-	76
D3-N-MeFOSA (surr.)	1	%	-	117	-	117
D5-N-EtFOSA (surr.)	1	%	-	122	-	106
D7-N-MeFOSE (surr.)	1	%	-	96	-	95
D9-N-EtFOSE (surr.)	1	%	-	103	-	89
D5-N-EtFOSAA (surr.)	1	%	-	104	-	101
D3-N-MeFOSAA (surr.)	1	%	-	108	-	107
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	83	-	85
18O2-PFHxS (surr.)	1	%	-	100	-	95
13C8-PFOS (surr.)	1	%	-	97	-	87
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	138	-	139
13C2-6:2 FTSA (surr.)	1	%	-	87	-	133
13C2-8:2 FTSA (surr.)	1	%	-	114	-	104
13C2-10:2 FTSA (surr.)	1	%	-	98	-	77
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50

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Client Sample ID			SB18_0.7-1.0	SB19_0-0.2	SB19_0.2-0.5	SB21_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063722	M23-My0063723	M23-My0063724	M23-My0063726
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	60
p-Terphenyl-d14 (surr.)	1	%	-	-	-	100
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.2	-

eurofins | Environment Testing

Client Sample ID			SB18_0.7-1.0	SB19_0-0.2	SB19_0.2-0.5	SB21_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063722	M23-My0063723	M23-My0063724	M23-My0063726
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	6.5	10.0	5.4
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	26	37	6.7
Copper	5	mg/kg	-	16	21	< 5
Lead	5	mg/kg	-	13	14	< 5
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	12	16	< 5
Zinc	5	mg/kg	-	33	37	< 5
Sample Properties						
% Moisture	1	%	7.9	13	14	5.7
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.6	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.4	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.009	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.030	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.021	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	13	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.16	-	-	-
Calcium - Peroxide	0.005	% Ca	7.2	-	-	-
Calcium - Acid Reacted	0.005	% Ca	7.1	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	5.7	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	3500	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.028	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.39	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.36	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.48	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	300	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	19	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	6.2	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	3900	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-

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Client Sample ID			SB18_0.7-1.0	SB19_0-0.2	SB19_0.2-0.5	SB21_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063722	M23-My0063723	M23-My0063724	M23-My0063726
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	140	-	-	-
>2mm Fraction	0.005	g	< 0.005	-	-	-
Analysed Material	0.1	%	100	-	-	-
Extraneous Material	0.1	%	< 0.1	-	-	-

Client Sample ID			SB22_0-0.2	SB22_0.5-0.7	SB23_0-0.2	SB24_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063727	M23-My0063728	M23-My0063729	M23-My0063730
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	-	-	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5

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Client Sample ID			SB22_0-0.2	SB22_0.5-0.7	SB23_0-0.2	SB24_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063727	M23-My0063728	M23-My0063729	M23-My0063730
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	61	-	-	59
p-Terphenyl-d14 (surr.)	1	%	66	-	-	58
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.1	-	-	8.0
Heavy Metals						
Arsenic	2	mg/kg	7.1	13	8.1	11
Cadmium	0.4	mg/kg	< 0.4	2.0	< 0.4	< 0.4
Chromium	5	mg/kg	30	23	26	35
Copper	5	mg/kg	21	19	17	24
Lead	5	mg/kg	21	65	13	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	15	12	20
Zinc	5	mg/kg	40	84	38	37
Sample Properties						
% Moisture	1	%	11	14	13	9.9

Client Sample ID			SB24_0.7-1.0	SB25_0-0.3	SB26_0-0.2	SB26_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063731	M23-My0063732	M23-My0063733	M23-My0063734
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

eurofins | Environment Testing

Client Sample ID			SB24_0.7-1.0	SB25_0-0.3	SB26_0-0.2	SB26_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063731	M23-My0063732	M23-My0063733	M23-My0063734
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	81	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	57	-	-
p-Terphenyl-d14 (surr.)	1	%	-	113	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	9.0	-
Heavy Metals						
Arsenic	2	mg/kg	12	6.8	5.7	7.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	39	29	32
Copper	5	mg/kg	24	20	17	20
Lead	5	mg/kg	27	12	12	12
Mercury	0.1	mg/kg	0.7	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	18	13	15
Zinc	5	mg/kg	66	35	33	31
Sample Properties						
% Moisture	1	%	20	14	10	12

eurofins | Environment Testing

Client Sample ID			SB24_0.7-1.0	SB25_0-0.3	SB26_0-0.2	SB26_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063731	M23-My0063732	M23-My0063733	M23-My0063734
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	61	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-

eurofins | Environment Testing

Client Sample ID			SB24_0.7-1.0	SB25_0-0.3	SB26_0-0.2	SB26_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063731	M23-My0063732	M23-My0063733	M23-My0063734
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	66	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	61	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	90	-
13C5-PFPeA (surr.)	1	%	-	-	100	-
13C5-PFHxA (surr.)	1	%	-	-	109	-
13C4-PFHpA (surr.)	1	%	-	-	126	-
13C8-PFOA (surr.)	1	%	-	-	104	-
13C5-PFNA (surr.)	1	%	-	-	95	-
13C6-PFDA (surr.)	1	%	-	-	98	-
13C2-PFUnDA (surr.)	1	%	-	-	79	-
13C2-PFDoDA (surr.)	1	%	-	-	89	-
13C2-PFTeDA (surr.)	1	%	-	-	122	-

eurofins | Environment Testing

Client Sample ID			SB24_0.7-1.0	SB25_0-0.3	SB26_0-0.2	SB26_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063731	M23-My0063732	M23-My0063733	M23-My0063734
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	78	-
D3-N-MeFOSA (surr.)	1	%	-	-	95	-
D5-N-EtFOSA (surr.)	1	%	-	-	102	-
D7-N-MeFOSE (surr.)	1	%	-	-	95	-
D9-N-EtFOSE (surr.)	1	%	-	-	106	-
D5-N-EtFOSAA (surr.)	1	%	-	-	124	-
D3-N-MeFOSAA (surr.)	1	%	-	-	120	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	116	-
18O2-PFHxS (surr.)	1	%	-	-	87	-
13C8-PFOS (surr.)	1	%	-	-	60	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	127	-
13C2-6:2 FTSA (surr.)	1	%	-	-	108	-
13C2-8:2 FTSA (surr.)	1	%	-	-	113	-
13C2-10:2 FTSA (surr.)	1	%	-	-	95	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

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Client Sample ID			SB26_0.7-1.0	SB27_0-0.2	SB28_0-0.3	SB28_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063735	M23-My0063736	M23-My0063737	M23-My0063738
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	85	78	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	65	76	-
p-Terphenyl-d14 (surr.)	1	%	-	68	61	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	7.6	-

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Client Sample ID			SB26_0.7-1.0	SB27_0-0.2	SB28_0-0.3	SB28_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063735	M23-My0063736	M23-My0063737	M23-My0063738
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.4	5.0	8.1	7.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	35	20	27	33
Copper	5	mg/kg	20	16	17	21
Lead	5	mg/kg	14	13	13	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	9.4	13	16
Zinc	5	mg/kg	36	47	35	39
Sample Properties						
% Moisture	1	%	13	5.1	11	12
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.2	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.5	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.097	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.13	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.033	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	21	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.25	-	-	-
Calcium - Peroxide	0.005	% Ca	6.0	-	-	-
Calcium - Acid Reacted	0.005	% Ca	5.7	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	4.6	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	2900	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.078	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.81	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.73	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.96	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	600	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	18	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	5.7	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	3600	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-

eurofins | Environment Testing

Client Sample ID			SB26_0.7-1.0	SB27_0-0.2	SB28_0-0.3	SB28_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063735	M23-My0063736	M23-My0063737	M23-My0063738
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	230	-	-	-
>2mm Fraction	0.005	g	1.4	-	-	-
Analysed Material	0.1	%	99	-	-	-
Extraneous Material	0.1	%	0.6	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	60	-
13C5-PFPeA (surr.)	1	%	-	-	77	-
13C5-PFHxA (surr.)	1	%	-	-	93	-
13C4-PFHpA (surr.)	1	%	-	-	113	-
13C8-PFOA (surr.)	1	%	-	-	98	-
13C5-PFNA (surr.)	1	%	-	-	89	-
13C6-PFDA (surr.)	1	%	-	-	93	-
13C2-PFUnDA (surr.)	1	%	-	-	71	-
13C2-PFDoDA (surr.)	1	%	-	-	86	-
13C2-PFTeDA (surr.)	1	%	-	-	100	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	71	-
D3-N-MeFOSA (surr.)	1	%	-	-	92	-
D5-N-EtFOSA (surr.)	1	%	-	-	90	-
D7-N-MeFOSE (surr.)	1	%	-	-	90	-
D9-N-EtFOSE (surr.)	1	%	-	-	93	-
D5-N-EtFOSAA (surr.)	1	%	-	-	84	-
D3-N-MeFOSAA (surr.)	1	%	-	-	89	-

eurofins | Environment Testing

Client Sample ID			SB26_0.7-1.0	SB27_0-0.2	SB28_0-0.3	SB28_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063735	M23-My0063736	M23-My0063737	M23-My0063738
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	99	-
18O2-PFHxS (surr.)	1	%	-	-	78	-
13C8-PFOS (surr.)	1	%	-	-	56	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	91	-
13C2-6:2 FTSA (surr.)	1	%	-	-	100	-
13C2-8:2 FTSA (surr.)	1	%	-	-	117	-
13C2-10:2 FTSA (surr.)	1	%	-	-	86	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	-	73	63
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	59	-	60	63
p-Terphenyl-d14 (surr.)	1	%	147	-	133	78
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.6	-	8.9
Cyanide (total)	5	mg/kg	-	-	-	< 5
Heavy Metals						
Arsenic	2	mg/kg	6.8	4.0	6.4	6.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	15	22	28
Copper	5	mg/kg	16	13	23	18
Lead	5	mg/kg	14	10	19	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	12	6.9	10	12
Zinc	5	mg/kg	35	34	63	38
Sample Properties						
% Moisture	1	%	15	13	20	13

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	114
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	63
Toluene-d8 (surr.)	1	%	-	-	-	70
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	58	-	92	-
Tetrachloro-m-xylene (surr.)	1	%	68	-	68	-

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	93	-	58	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	58	-	92	-
Tetrachloro-m-xylene (surr.)	1	%	68	-	68	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.2	-	-	9.3
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	< 0.003

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	9.0	-	-	8.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.21	-	-	0.22
Peroxide Extractable Sulfur	0.005	% S	0.29	-	-	0.34
HCl Extractable Sulfur	0.005	% S	N/A	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.075	-	-	0.11
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	47	-	-	71
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.35	-	-	0.36
Calcium - Peroxide	0.005	% Ca	9.2	-	-	6.4
Calcium - Acid Reacted	0.005	% Ca	8.8	-	-	6.1
Calcium - Acid Reacted (s-aCa)	0.005	% S	7.0	-	-	4.9
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	4400	-	-	3000
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.070	-	-	0.087
Magnesium - Peroxide	0.005	% Mg	0.58	-	-	0.53
Magnesium - Acid Reacted	0.005	% Mg	0.50	-	-	0.44
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.67	-	-	0.58
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	420	-	-	360
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	25	-	-	18
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	8.0	-	-	5.6
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	5000	-	-	3500
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	190	-	-	130
>2mm Fraction	0.005	g	21	-	-	3.7
Analysed Material	0.1	%	90	-	-	97
Extraneous Material	0.1	%	10.0	-	-	2.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	28
13C5-PFPeA (surr.)	1	%	-	-	-	55
13C5-PFHxA (surr.)	1	%	-	-	-	67
13C4-PFHpA (surr.)	1	%	-	-	-	82
13C8-PFOA (surr.)	1	%	-	-	-	87
13C5-PFNA (surr.)	1	%	-	-	-	78
13C6-PFDA (surr.)	1	%	-	-	-	77
13C2-PFUnDA (surr.)	1	%	-	-	-	62
13C2-PFDoDA (surr.)	1	%	-	-	-	75
13C2-PFTeDA (surr.)	1	%	-	-	-	89
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	75
D3-N-MeFOSA (surr.)	1	%	-	-	-	100
D5-N-EtFOSA (surr.)	1	%	-	-	-	101
D7-N-MeFOSE (surr.)	1	%	-	-	-	83
D9-N-EtFOSE (surr.)	1	%	-	-	-	86
D5-N-EtFOSAA (surr.)	1	%	-	-	-	60
D3-N-MeFOSAA (surr.)	1	%	-	-	-	72
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	71
18O2-PFHxS (surr.)	1	%	-	-	-	89
13C8-PFOS (surr.)	1	%	-	-	-	69

eurofins | Environment Testing

Client Sample ID			SB28_0.7-1.0	SB29_0-0.2	SB29_0.7-1.0	SB32_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063739	M23-My0063740	M23-My0063741	M23-My0063742
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	97
13C2-6:2 FTSA (surr.)	1	%	-	-	-	161
13C2-8:2 FTSA (surr.)	1	%	-	-	-	123
13C2-10:2 FTSA (surr.)	1	%	-	-	-	74
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	72	-	1.2
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

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Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	68	59	-	60
p-Terphenyl-d14 (surr.)	1	%	78	87	-	80
Cyanide (total)	5	mg/kg	< 5	-	< 5	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.6	-	5.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	5.1	33	-	21
Copper	5	mg/kg	< 5	21	-	9.9
Lead	5	mg/kg	< 5	16	-	5.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	15	-	10.0
Zinc	5	mg/kg	6.5	47	-	16
Sample Properties						
% Moisture	1	%	12	19	16	21
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	65	-	66	-

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Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

eurofins | Environment Testing

Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	80	72	-	1.2
Toluene-d8 (surr.)	1	%	95	83	-	< 1
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.6	9.3	-	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.1	8.6	-	8.3
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.091	0.18	-	0.22
Peroxide Extractable Sulfur	0.005	% S	0.14	0.42	-	0.48
HCl Extractable Sulfur	0.005	% S	N/A	N/A	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.050	0.24	-	0.26
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	31	150	-	160
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1^{S02}	0.005	% S	N/A	N/A	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.24	0.33	-	0.29
Calcium - Peroxide	0.005	% Ca	7.6	5.8	-	6.9
Calcium - Acid Reacted	0.005	% Ca	7.4	5.5	-	6.6
Calcium - Acid Reacted (s-aCa)	0.005	% S	5.9	4.4	-	5.3
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	3700	2700	-	3300
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.065	0.090	-	0.16
Magnesium - Peroxide	0.005	% Mg	0.39	0.49	-	0.66
Magnesium - Acid Reacted	0.005	% Mg	0.33	0.40	-	0.50
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.43	0.53	-	0.66
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	270	330	-	410
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	20	15	-	18
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	6.4	4.8	-	5.9
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	4000	3000	-	3700
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	1.5	-	1.5

eurofins | Environment Testing

Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	< 10	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	< 0.02	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	170	150	-	200
>2mm Fraction	0.005	g	< 0.005	< 0.005	-	< 0.005
Analysed Material	0.1	%	100	100	-	100
Extraneous Material	0.1	%	< 0.1	< 0.1	-	< 0.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	-	< 5
13C4-PFBA (surr.)	1	%	24	22	-	19
13C5-PFPeA (surr.)	1	%	48	47	-	38
13C5-PFHxA (surr.)	1	%	62	59	-	53
13C4-PFHpA (surr.)	1	%	73	65	-	63
13C8-PFOA (surr.)	1	%	81	77	-	65
13C5-PFNA (surr.)	1	%	83	66	-	59
13C6-PFDA (surr.)	1	%	76	68	-	65
13C2-PFUnDA (surr.)	1	%	68	63	-	56
13C2-PFDoDA (surr.)	1	%	73	62	-	63
13C2-PFTeDA (surr.)	1	%	89	83	-	80
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	-	< 10
13C8-FOSA (surr.)	1	%	75	67	-	68
D3-N-MeFOSA (surr.)	1	%	99	92	-	94
D5-N-EtFOSA (surr.)	1	%	102	90	-	90
D7-N-MeFOSE (surr.)	1	%	83	57	-	63
D9-N-EtFOSE (surr.)	1	%	90	81	-	82
D5-N-EtFOSAA (surr.)	1	%	73	63	-	71
D3-N-MeFOSAA (surr.)	1	%	74	68	-	68

eurofins | Environment Testing

Client Sample ID			SB35_0-0.2	SB37_0-0.2	SB37_0.4-0.6	SB39_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063743	M23-My0063744	M23-My0063745	M23-My0063746
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	-	< 5
13C3-PFBS (surr.)	1	%	62	62	-	53
18O2-PFHxS (surr.)	1	%	90	83	-	74
13C8-PFOS (surr.)	1	%	94	69	-	69
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	97	83	-	71
13C2-6:2 FTSA (surr.)	1	%	152	80	-	110
13C2-8:2 FTSA (surr.)	1	%	101	95	-	86
13C2-10:2 FTSA (surr.)	1	%	57	59	-	61
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-	< 50

Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

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Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	89	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	70	-	-
p-Terphenyl-d14 (surr.)	1	%	-	75	-	-
Cyanide (total)	5	mg/kg	< 5	< 5	-	-
Heavy Metals						
Arsenic	2	mg/kg	12	10	11	10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.7
Chromium	5	mg/kg	37	56	54	18
Copper	5	mg/kg	23	31	38	17
Lead	5	mg/kg	19	20	30	58
Mercury	0.1	mg/kg	0.1	< 0.1	0.2	0.1
Nickel	5	mg/kg	18	27	26	11
Zinc	5	mg/kg	46	56	76	67
Sample Properties						
% Moisture	1	%	37	27	29	15

eurofins | Environment Testing

Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	< 1.25	-	-
Dibutyltin	1	mg/kg	< 1	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Monobutyltin	0.75	mg/kg	< 0.75	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	102	91	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	89	-	-
Toluene-d8 (surr.)	1	%	-	100	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.1	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.3	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.31	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.72	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.41	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	250	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.47	-	-
Calcium - Peroxide	0.005	% Ca	-	4.5	-	-
Calcium - Acid Reacted	0.005	% Ca	-	4.1	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	3.2	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	2000	-	-

eurofins | Environment Testing

Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.23	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.43	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.20	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.27	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	170	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	10.0	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	3.2	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	2000	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	190	-	-
>2mm Fraction	0.005	g	-	< 0.005	-	-
Analysed Material	0.1	%	-	100	-	-
Extraneous Material	0.1	%	-	< 0.1	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	16	-	-
13C5-PFPeA (surr.)	1	%	-	38	-	-
13C5-PFHxA (surr.)	1	%	-	47	-	-
13C4-PFHpA (surr.)	1	%	-	61	-	-
13C8-PFOA (surr.)	1	%	-	70	-	-
13C5-PFNA (surr.)	1	%	-	65	-	-
13C6-PFDA (surr.)	1	%	-	66	-	-
13C2-PFUnDA (surr.)	1	%	-	68	-	-
13C2-PFDoDA (surr.)	1	%	-	76	-	-
13C2-PFTeDA (surr.)	1	%	-	84	-	-

eurofins | Environment Testing

Client Sample ID			SB39_0.3-0.5	SB40_0-0.2	SB40_0.3-0.5	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0063747	M23-My0063748	M23-My0063749	M23-My0063750
Date Sampled			May 23, 2023	May 23, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	72	-	-
D3-N-MeFOSA (surr.)	1	%	-	94	-	-
D5-N-EtFOSA (surr.)	1	%	-	91	-	-
D7-N-MeFOSE (surr.)	1	%	-	102	-	-
D9-N-EtFOSE (surr.)	1	%	-	80	-	-
D5-N-EtFOSAA (surr.)	1	%	-	46	-	-
D3-N-MeFOSAA (surr.)	1	%	-	55	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	52	-	-
18O2-PFHxS (surr.)	1	%	-	80	-	-
13C8-PFOS (surr.)	1	%	-	88	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	84	-	-
13C2-6:2 FTSA (surr.)	1	%	-	133	-	-
13C2-8:2 FTSA (surr.)	1	%	-	78	-	-
13C2-10:2 FTSA (surr.)	1	%	-	66	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

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Client Sample ID			DUP03	DUP04
Sample Matrix			Soil	Soil
Eurofins Sample No.			M23-My0063751	M23-My0063752
Date Sampled			May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	-	< 20
TRH C10-C14	20	mg/kg	-	< 20
TRH C15-C28	50	mg/kg	-	< 50
TRH C29-C36	50	mg/kg	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50
TRH C6-C10	20	mg/kg	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100
BTEX				
Benzene	0.1	mg/kg	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	-	< 0.5
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	55
p-Terphenyl-d14 (surr.)	1	%	-	59

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Client Sample ID			DUP03	DUP04
Sample Matrix			Soil	Soil
Eurofins Sample No.			M23-My0063751	M23-My0063752
Date Sampled			May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	6.9	7.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	12	30
Copper	5	mg/kg	7.9	21
Lead	5	mg/kg	6.1	18
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	13
Zinc	5	mg/kg	14	47
Sample Properties				
% Moisture	1	%	11	13
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5
13C4-PFBA (surr.)	1	%	-	29
13C5-PFPeA (surr.)	1	%	-	58
13C5-PFHxA (surr.)	1	%	-	76
13C4-PFHpA (surr.)	1	%	-	88
13C8-PFOA (surr.)	1	%	-	93
13C5-PFNA (surr.)	1	%	-	88
13C6-PFDA (surr.)	1	%	-	90
13C2-PFUnDA (surr.)	1	%	-	61
13C2-PFDoDA (surr.)	1	%	-	77
13C2-PFTeDA (surr.)	1	%	-	100
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10
13C8-FOSA (surr.)	1	%	-	74
D3-N-MeFOSA (surr.)	1	%	-	118
D5-N-EtFOSA (surr.)	1	%	-	113
D7-N-MeFOSE (surr.)	1	%	-	106
D9-N-EtFOSE (surr.)	1	%	-	96

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Client Sample ID			DUP03	DUP04
Sample Matrix			Soil	Soil
Eurofins Sample No.			M23-My0063751	M23-My0063752
Date Sampled			May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D5-N-EtFOSAA (surr.)	1	%	-	85
D3-N-MeFOSAA (surr.)	1	%	-	89
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5
13C3-PFBS (surr.)	1	%	-	72
18O2-PFHxS (surr.)	1	%	-	101
13C8-PFOS (surr.)	1	%	-	80
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	123
13C2-6:2 FTSA (surr.)	1	%	-	117
13C2-8:2 FTSA (surr.)	1	%	-	129
13C2-10:2 FTSA (surr.)	1	%	-	67
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 31, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
- Method:			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	May 30, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (total)	Melbourne	May 30, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Organotins	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Volatile Organics	Melbourne	May 26, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
% Moisture	Melbourne	May 31, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	May 27, 2023	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	May 27, 2023	6 Week
- Method: LTM-GEN-7050/7070			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 25, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
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Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	SB01_0-0.2	May 22, 2023		Soil	M23-My0063697				X						X	X			
2	SB01_0.4-0.6	May 22, 2023		Soil	M23-My0063698						X				X				
3	SB02_0-0.2	May 22, 2023		Soil	M23-My0063699						X				X				
4	SB03_0-0.2	May 22, 2023		Soil	M23-My0063700				X		X				X				
5	SB04_0-0.2	May 22, 2023		Soil	M23-My0063701										X	X			
6	SB04_0.2-0.4	May 22, 2023		Soil	M23-My0063702		X								X				X
7	SB05_0-0.2	May 22, 2023		Soil	M23-My0063703						X				X				
8	SB06_0-0.2	May 22, 2023		Soil	M23-My0063704										X	X			
9	SB07_0-0.2	May 22, 2023		Soil	M23-My0063705						X		X		X				
10	SB07_0.2-0.5	May 22, 2023		Soil	M23-My0063706		X				X				X				X
11	SB09_0-0.2	May 22, 2023		Soil	M23-My0063707		X								X	X			X
12	SB09_0.3-0.5	May 22, 2023		Soil	M23-My0063708						X		X		X				

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Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
13	SB12_0-0.2	May 22, 2023		Soil	M23-My0063709						X				X				
14	SB13_0-0.4	May 22, 2023		Soil	M23-My0063710				X	X		X			X	X			
15	SB14_0-0.2	May 22, 2023		Soil	M23-My0063711						X			X	X			X	
16	SB14_0.8-1.0	May 22, 2023		Soil	M23-My0063712						X				X				
17	SB15_0-0.2	May 22, 2023		Soil	M23-My0063713				X		X				X				
18	SB15_0.2-0.4	May 22, 2023		Soil	M23-My0063714						X				X				
19	SB17_0.2-0.5	May 22, 2023		Soil	M23-My0063715						X				X				
20	SB20_0-0.2	May 22, 2023		Soil	M23-My0063716						X				X				
21	DUP01	May 22, 2023		Soil	M23-My0063717						X				X				
22	RB01	May 22, 2023		Water	M23-My0063718												X		
23	SB16_0-0.2	May 23, 2023		Soil	M23-My0063719										X	X		X	
24	SB16_0.7-1.0	May 23, 2023		Soil	M23-My0063720					X		X			X	X			
25	SB18_0-0.2	May 23, 2023		Soil	M23-My0063721					X		X			X	X		X	
26	SB18_0.7-1.0	May 23, 2023		Soil	M23-My0063722									X	X				
27	SB19_0-0.2	May 23, 2023		Soil	M23-My0063723						X				X				

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Company Name: JBS & G Australia (SA) P/L
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Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
28	SB19_0.2-0.5	May 23, 2023		Soil	M23-My0063724				X		X				X				
29	SB20_0-0.2	May 23, 2023		Soil	M23-My0063725	X													
30	SB21_0-0.2	May 23, 2023		Soil	M23-My0063726										X	X			
31	SB22_0-0.2	May 23, 2023		Soil	M23-My0063727				X						X	X			
32	SB22_0.5-0.7	May 23, 2023		Soil	M23-My0063728						X				X				
33	SB23_0-0.2	May 23, 2023		Soil	M23-My0063729						X				X				
34	SB24_0-0.2	May 23, 2023		Soil	M23-My0063730				X						X	X			
35	SB24_0.7-1.0	May 23, 2023		Soil	M23-My0063731						X				X				
36	SB25_0-0.3	May 23, 2023		Soil	M23-My0063732					X		X			X	X			
37	SB26_0-0.2	May 23, 2023		Soil	M23-My0063733				X		X				X			X	
38	SB26_0.2-0.5	May 23, 2023		Soil	M23-My0063734						X				X				
39	SB26_0.7-1.0	May 23, 2023		Soil	M23-My0063735						X			X	X				
40	SB27_0-0.2	May 23, 2023		Soil	M23-My0063736										X	X			
41	SB28_0-0.3	May 23, 2023		Soil	M23-My0063737				X						X	X		X	
42	SB28_0.3-0.5	May 23, 2023		Soil	M23-My0063738						X				X				

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Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
43	SB28_0.7-1.0	May 23, 2023		Soil	M23-My0063739					X		X		X	X	X			
44	SB29_0-0.2	May 23, 2023		Soil	M23-My0063740				X		X				X				
45	SB29_0.7-1.0	May 23, 2023		Soil	M23-My0063741					X		X			X	X			
46	SB32_0-0.2	May 23, 2023		Soil	M23-My0063742		X		X				X	X	X	X		X	X
47	SB35_0-0.2	May 23, 2023		Soil	M23-My0063743		X						X	X	X	X		X	X
48	SB37_0-0.2	May 23, 2023		Soil	M23-My0063744								X	X	X	X		X	
49	SB37_0.4-0.6	May 23, 2023		Soil	M23-My0063745		X								X				X
50	SB39_0-0.2	May 23, 2023		Soil	M23-My0063746								X	X	X	X		X	
51	SB39_0.3-0.5	May 23, 2023		Soil	M23-My0063747		X				X				X				X
52	SB40_0-0.2	May 23, 2023		Soil	M23-My0063748		X						X	X	X	X		X	X
53	SB40_0.3-0.5	May 23, 2023		Soil	M23-My0063749						X				X				
54	DUP02	May 23, 2023		Soil	M23-My0063750						X				X				
55	DUP03	May 23, 2023		Soil	M23-My0063751						X				X				
56	DUP04	May 23, 2023		Soil	M23-My0063752										X	X		X	
57	RB02	May 23, 2023		Water	M23-My0063753												X	X	

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Order No.:
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Received: May 24, 2023 1:00 PM
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Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
58	FB01	May 23, 2023		Water	M23-My0063754													X	
59	SB01_0.2-0.4	May 22, 2023		Soil	M23-My0063755			X											
60	SB01_0.6-1.0	May 22, 2023		Soil	M23-My0063756			X											
61	SB02_0.2-0.5	May 22, 2023		Soil	M23-My0063757			X											
62	SB02_0.8-1.0	May 22, 2023		Soil	M23-My0063758			X											
63	SB03_0.2-0.4	May 22, 2023		Soil	M23-My0063759			X											
64	SB03_0.4-0.6	May 22, 2023		Soil	M23-My0063760			X											
65	SB03_0.6-1.0	May 22, 2023		Soil	M23-My0063761			X											
66	SB05_0.2-0.6	May 22, 2023		Soil	M23-My0063762			X											
67	SB05_0.6-1.0	May 22, 2023		Soil	M23-My0063763			X											
68	SB06_0.2-0.4	May 22, 2023		Soil	M23-My0063764			X											
69	SB06_0.6-0.8	May 22, 2023		Soil	M23-My0063765			X											
70	SB06_0.8-1.0	May 22, 2023		Soil	M23-My0063766			X											
71	SB07_0.5-0.8	May 22, 2023		Soil	M23-My0063767			X											
72	SB07_0.8-1.0	May 22, 2023		Soil	M23-My0063768			X											

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
73	SB09_0.6-0.8	May 22, 2023		Soil	M23-My0063769			X											
74	SB09_0.8-1.0	May 22, 2023		Soil	M23-My0063770			X											
75	SB12_0.2-0.6	May 22, 2023		Soil	M23-My0063771			X											
76	SB12_0.6-1.0	May 22, 2023		Soil	M23-My0063772			X											
77	SB13_0.4-0.8	May 22, 2023		Soil	M23-My0063773			X											
78	SB13_0.8-1.0	May 22, 2023		Soil	M23-My0063774			X											
79	SB14_0.5-0.8	May 22, 2023		Soil	M23-My0063775			X											
80	SB15_0.6-1.0	May 22, 2023		Soil	M23-My0063776			X											
81	SB17_0-0.2	May 22, 2023		Soil	M23-My0063777			X											
82	SB17_0.8-1.0	May 22, 2023		Soil	M23-My0063778			X											
83	SB20_0.2-0.5	May 22, 2023		Soil	M23-My0063779			X											
84	SB20_0.8-1.0	May 22, 2023		Soil	M23-My0063780			X											
85	SB16_0.3-0.5	May 23, 2023		Soil	M23-My0063781			X											
86	SB18_0.3-0.5	May 23, 2023		Soil	M23-My0063782			X											
87	SB19_0.7-1.0	May 23, 2023		Soil	M23-My0063783			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
88	SB20_0.3-0.5	May 23, 2023		Soil	M23-My0063784	X													
89	SB20_0.7-1.0	May 23, 2023		Soil	M23-My0063785	X													
90	SB21_0.3-0.5	May 23, 2023		Soil	M23-My0063786			X											
91	SB21_0.7-1.0	May 23, 2023		Soil	M23-My0063787			X											
92	SB22_0.8-1.0	May 23, 2023		Soil	M23-My0063788			X											
93	SB23_0.5-0.8	May 23, 2023		Soil	M23-My0063789			X											
94	SB23_0.9-1.0	May 23, 2023		Soil	M23-My0063790			X											
95	SB24_0.3-0.5	May 23, 2023		Soil	M23-My0063791			X											
96	SB25_0.5-0.7	May 23, 2023		Soil	M23-My0063792			X											
97	SB25_0.8-1.0	May 23, 2023		Soil	M23-My0063793			X											
98	SB27_0.6-0.8	May 23, 2023		Soil	M23-My0063794			X											
99	SB27_0.8-1.0	May 23, 2023		Soil	M23-My0063795			X											
100	SB29_0.3-0.5	May 23, 2023		Soil	M23-My0063796			X											
101	SB32_0.3-0.5	May 23, 2023		Soil	M23-My0063797			X											
102	SB32_0.8-1.0	May 23, 2023		Soil	M23-My0063798			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
103	SB35_0.5-0.7	May 23, 2023		Soil	M23-My0063799			X											
104	SB35_0.7-1.0	May 23, 2023		Soil	M23-My0063800			X											
105	SB37_0.7-1.0	May 23, 2023		Soil	M23-My0063801			X											
106	SB39_0.7-1.0	May 23, 2023		Soil	M23-My0063802			X											
107	SB40_0.7-1.0	May 23, 2023		Soil	M23-My0063803			X											
Test Counts						3	8	47	11	6	29	6	7	9	54	22	2	13	8

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	76			70-130	Pass	
TRH C10-C14	%	113			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	118			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	80			70-130	Pass	
Ethylbenzene	%	77			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
Xylenes - Total*	%	96			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	77			70-130	Pass	
Acenaphthylene	%	85			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	72			70-130	Pass	
Benzo(a)pyrene	%	72			70-130	Pass	
Benzo(b&j)fluoranthene	%	72			70-130	Pass	
Benzo(g.h.i)perylene	%	72			70-130	Pass	
Benzo(k)fluoranthene	%	85			70-130	Pass	
Chrysene	%	76			70-130	Pass	
Dibenz(a.h)anthracene	%	75			70-130	Pass	
Fluoranthene	%	84			70-130	Pass	
Fluorene	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	83			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Cyanide (total)	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organotins							
Tributyltin as Sn	%	131			60-140	Pass	
Dibutyltin as Sn	%	129			60-140	Pass	
Monobutyltin as Sn	%	134			60-140	Pass	
LCS - % Recovery							
Volatile Organics							
1.1.1-Trichloroethane	%	77			70-130	Pass	
1.2-Dichlorobenzene	%	87			70-130	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	96			70-130	Pass	
Ethylbenzene	%	81			70-130	Pass	
m&p-Xylenes	%	82			70-130	Pass	
Toluene	%	79			70-130	Pass	
Trichloroethene	%	78			70-130	Pass	
Xylenes - Total*	%	84			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	78			70-130	Pass	
4.4'-DDD	%	113			70-130	Pass	
4.4'-DDE	%	91			70-130	Pass	
4.4'-DDT	%	75			70-130	Pass	
a-HCH	%	92			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-HCH	%	79			70-130	Pass	
d-HCH	%	92			70-130	Pass	
Dieldrin	%	84			70-130	Pass	
Endosulfan I	%	83			70-130	Pass	
Endosulfan II	%	110			70-130	Pass	
Endosulfan sulphate	%	77			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	88			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-HCH (Lindane)	%	121			70-130	Pass	
Heptachlor	%	75			70-130	Pass	
Heptachlor epoxide	%	83			70-130	Pass	
Hexachlorobenzene	%	81			70-130	Pass	
Methoxychlor	%	71			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	93			70-130	Pass	
Dimethoate	%	91			70-130	Pass	
Ethion	%	94			70-130	Pass	
Fenitrothion	%	97			70-130	Pass	
Methyl parathion	%	92			70-130	Pass	
Mevinphos	%	99			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	128			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	85			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	82			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	83			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	71			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanoic acid (PFOA)	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	74			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	82			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	70			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	79			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	84			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	84			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	77			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	73			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	100			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	78			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	73			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	87			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	80			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	76			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	113			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	83			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	65			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	83			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0063704	CP	%	89			70-130	Pass	
TRH C10-C14	M23-My0063704	CP	%	86			70-130	Pass	
TRH C6-C10	M23-My0063704	CP	%	84			70-130	Pass	
TRH >C10-C16	M23-My0063704	CP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0063704	CP	%	89			70-130	Pass	
Toluene	M23-My0063704	CP	%	96			70-130	Pass	
Ethylbenzene	M23-My0063704	CP	%	89			70-130	Pass	
m&p-Xylenes	M23-My0063704	CP	%	87			70-130	Pass	
o-Xylene	M23-My0063704	CP	%	93			70-130	Pass	
Xylenes - Total*	M23-My0063704	CP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0063704	CP	%	82			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-My0063704	CP	%	94			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	M23-My0063704	CP	%	74			70-130	Pass	
1.2-Dichlorobenzene	M23-My0063704	CP	%	104			70-130	Pass	
1.2-Dichloroethane	M23-My0063704	CP	%	113			70-130	Pass	
Trichloroethene	M23-My0063704	CP	%	103			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0063706	CP	%	96			75-125	Pass	
Cadmium	M23-My0063706	CP	%	93			75-125	Pass	
Chromium	M23-My0063706	CP	%	73			75-125	Fail	Q08
Copper	M23-My0063706	CP	%	82			75-125	Pass	
Lead	M23-My0063706	CP	%	92			75-125	Pass	
Mercury	M23-My0063706	CP	%	103			75-125	Pass	
Nickel	M23-My0063706	CP	%	84			75-125	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M23-My0063706	CP	%	99			60-140	Pass	
Dibutyltin as Sn	M23-My0063706	CP	%	119			60-140	Pass	
Monobutyltin as Sn	M23-My0063706	CP	%	108			60-140	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0063707	CP	%	79			70-130	Pass	
TRH C6-C10	M23-My0063707	CP	%	81			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0063707	CP	%	81			70-130	Pass	
Toluene	M23-My0063707	CP	%	81			70-130	Pass	
Ethylbenzene	M23-My0063707	CP	%	76			70-130	Pass	
m&p-Xylenes	M23-My0063707	CP	%	76			70-130	Pass	
o-Xylene	M23-My0063707	CP	%	82			70-130	Pass	
Xylenes - Total*	M23-My0063707	CP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0063707	CP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0063716	CP	%	107			75-125	Pass	
Cadmium	M23-My0063716	CP	%	102			75-125	Pass	
Chromium	M23-My0063716	CP	%	108			75-125	Pass	
Copper	M23-My0063716	CP	%	104			75-125	Pass	
Lead	M23-My0063716	CP	%	106			75-125	Pass	
Mercury	M23-My0063716	CP	%	112			75-125	Pass	
Nickel	M23-My0063716	CP	%	102			75-125	Pass	
Zinc	M23-My0063716	CP	%	106			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-My0063719	CP	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0063719	CP	%	91			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0063719	CP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0063719	CP	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0063719	CP	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-My0063719	CP	%	86			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0063719	CP	%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0063719	CP	%	104			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	M23-My0063719	CP	%	91			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0063719	CP	%	85			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0063719	CP	%	97			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-My0063719	CP	%	102			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0063719	CP	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0063719	CP	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0063719	CP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0063719	CP	%	97			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0063719	CP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0063719	CP	%	87			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-My0063719	CP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0063719	CP	%	59			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0063719	CP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0063719	CP	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0063719	CP	%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0063719	CP	%	99			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0063719	CP	%	94			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0063719	CP	%	77			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0063719	CP	%	125			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0063719	CP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0063719	CP	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0063719	CP	%	91			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0063731	CP	%	105			75-125	Pass	
Cadmium	M23-My0063731	CP	%	100			75-125	Pass	
Chromium	M23-My0063731	CP	%	111			75-125	Pass	
Copper	M23-My0063731	CP	%	104			75-125	Pass	
Lead	M23-My0063731	CP	%	105			75-125	Pass	
Mercury	M23-My0063731	CP	%	78			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	M23-My0063731	CP	%	103			75-125	Pass	
Zinc	M23-My0063731	CP	%	117			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0063737	CP	%	102			70-130	Pass	
TRH C6-C10	M23-My0063737	CP	%	93			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0063737	CP	%	77			70-130	Pass	
Toluene	M23-My0063737	CP	%	79			70-130	Pass	
Ethylbenzene	M23-My0063737	CP	%	79			70-130	Pass	
m&p-Xylenes	M23-My0063737	CP	%	75			70-130	Pass	
o-Xylene	M23-My0063737	CP	%	80			70-130	Pass	
Xylenes - Total*	M23-My0063737	CP	%	76			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0063737	CP	%	80			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-My0063700	CP	pH Units	8.1	8.1	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0063701	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-My0063701	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0063701	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0063701	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-My0063701	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-My0063701	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0063701	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0063701	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0063701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0063701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0063701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0063701	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0063701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0063701	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Dibenz(a.h)anthracene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Trichlorofluoromethane	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-My0063701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063705	CP	mg/kg	6.5	7.2	9.6	30%	Pass	
Cadmium	M23-My0063705	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063705	CP	mg/kg	56	64	14	30%	Pass	
Copper	M23-My0063705	CP	mg/kg	28	34	19	30%	Pass	
Lead	M23-My0063705	CP	mg/kg	16	23	34	30%	Fail	Q15
Mercury	M23-My0063705	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0063705	CP	mg/kg	25	29	13	30%	Pass	
Zinc	M23-My0063705	CP	mg/kg	52	73	33	30%	Fail	Q15
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0063705	CP	%	23	21	5.5	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063706	CP	mg/kg	10	10	<1	30%	Pass	
Cadmium	M23-My0063706	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063706	CP	mg/kg	85	84	1.5	30%	Pass	
Copper	M23-My0063706	CP	mg/kg	50	49	2.4	30%	Pass	
Lead	M23-My0063706	CP	mg/kg	36	36	<1	30%	Pass	
Mercury	M23-My0063706	CP	mg/kg	0.2	0.2	7.6	30%	Pass	
Nickel	M23-My0063706	CP	mg/kg	39	37	5.2	30%	Pass	
Zinc	M23-My0063706	CP	mg/kg	110	100	2.2	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-My0063710	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0063710	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0063710	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-My0063710	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0063710	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0063710	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-My0063710	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-My0063710	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-My0063710	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-My0063710	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-My0063710	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tetrachlorvinphos	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-My0063710	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-My0063710	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0063711	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0063711	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0063711	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0063711	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0063715	CP	%	4.7	5.0	4.8	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063716	CP	mg/kg	2.9	2.8	3.1	30%	Pass	
Cadmium	M23-My0063716	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063716	CP	mg/kg	10.0	9.8	1.8	30%	Pass	
Copper	M23-My0063716	CP	mg/kg	7.4	7.3	2.5	30%	Pass	
Lead	M23-My0063716	CP	mg/kg	8.4	8.3	1.4	30%	Pass	
Mercury	M23-My0063716	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0063716	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	M23-My0063716	CP	mg/kg	21	20	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063717	CP	mg/kg	9.3	7.7	19	30%	Pass	
Cadmium	M23-My0063717	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063717	CP	mg/kg	57	71	22	30%	Pass	
Copper	M23-My0063717	CP	mg/kg	45	36	23	30%	Pass	
Mercury	M23-My0063717	CP	mg/kg	0.3	< 0.1	99	30%	Fail	Q15
Nickel	M23-My0063717	CP	mg/kg	26	32	20	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-My0063720	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0063720	CP	mg/kg	140	180	22	30%	Pass	
TRH C29-C36	M23-My0063720	CP	mg/kg	120	130	12	30%	Pass	
TRH >C10-C16	M23-My0063720	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0063720	CP	mg/kg	240	280	18	30%	Pass	
TRH >C34-C40	M23-My0063720	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorodecanoic acid (PFDA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0063721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0063721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0063721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0063721	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Cadmium	M23-My0063726	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063726	CP	mg/kg	6.7	9.1	30	30%	Pass	
Copper	M23-My0063726	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M23-My0063726	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M23-My0063726	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0063726	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	M23-My0063726	CP	mg/kg	< 5	6.0	29	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0063727	CP	%	11	11	2.3	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063730	CP	mg/kg	11	9.8	6.8	30%	Pass	
Cadmium	M23-My0063730	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063730	CP	mg/kg	35	30	14	30%	Pass	
Copper	M23-My0063730	CP	mg/kg	24	21	14	30%	Pass	
Lead	M23-My0063730	CP	mg/kg	16	17	<1	30%	Pass	
Mercury	M23-My0063730	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0063730	CP	mg/kg	20	20	1.2	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063731	CP	mg/kg	12	12	<1	30%	Pass	
Cadmium	M23-My0063731	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063731	CP	mg/kg	29	29	1.2	30%	Pass	
Copper	M23-My0063731	CP	mg/kg	24	24	<1	30%	Pass	
Lead	M23-My0063731	CP	mg/kg	27	26	1.5	30%	Pass	
Mercury	M23-My0063731	CP	mg/kg	0.7	0.7	8.5	30%	Pass	
Nickel	M23-My0063731	CP	mg/kg	16	16	2.0	30%	Pass	
Zinc	M23-My0063731	CP	mg/kg	66	66	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0063736	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-My0063736	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0063736	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0063736	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-My0063736	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-My0063736	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0063736	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0063736	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0063736	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0063736	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0063736	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0063736	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0063736	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0063736	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0063736	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0063737	CP	%	11	11	4.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0063747	CP	%	37	37	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0063749	CP	mg/kg	11	12	2.7	30%	Pass	
Cadmium	M23-My0063749	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0063749	CP	mg/kg	54	46	14	30%	Pass	
Copper	M23-My0063749	CP	mg/kg	38	39	3.2	30%	Pass	
Lead	M23-My0063749	CP	mg/kg	30	40	29	30%	Pass	
Nickel	M23-My0063749	CP	mg/kg	26	23	11	30%	Pass	
Zinc	M23-My0063749	CP	mg/kg	76	95	22	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Inorganic
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-SPOCAS
Carroll Lee	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **992922-W**
Project name URPS OSBOURNE
Project ID 64648
Received Date May 24, 2023

Client Sample ID			**RB01**	**RB02**	**FB01**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**M23-My0063718**	**M23-My0063753**	**M23-My0063754**
Date Sampled			**May 22, 2023**	**May 23, 2023**	**May 23, 2023**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-
BTEX					
Benzene	0.001	mg/L	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	106	102	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	-
Heavy Metals					
Arsenic	0.001	mg/L	< 0.001	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	< 0.001	-
Copper	0.001	mg/L	< 0.001	< 0.001	-
Lead	0.001	mg/L	< 0.001	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	< 0.001	-
Zinc	0.005	mg/L	< 0.005	< 0.005	-

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Client Sample ID			RB01	RB02	FB01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M23-My0063718	M23-My0063753	M23-My0063754
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	-	103	121
13C5-PFPeA (surr.)	1	%	-	105	105
13C5-PFHxA (surr.)	1	%	-	107	111
13C4-PFHpA (surr.)	1	%	-	107	112
13C8-PFOA (surr.)	1	%	-	103	114
13C5-PFNA (surr.)	1	%	-	108	118
13C6-PFDA (surr.)	1	%	-	111	118
13C2-PFUnDA (surr.)	1	%	-	85	85
13C2-PFDoDA (surr.)	1	%	-	77	79
13C2-PFTeDA (surr.)	1	%	-	58	53
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	-	90	93
D3-N-MeFOSA (surr.)	1	%	-	93	81
D5-N-EtFOSA (surr.)	1	%	-	80	71
D7-N-MeFOSE (surr.)	1	%	-	84	89
D9-N-EtFOSE (surr.)	1	%	-	78	83
D5-N-EtFOSAA (surr.)	1	%	-	83	83
D3-N-MeFOSAA (surr.)	1	%	-	77	78
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01	< 0.01

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Client Sample ID			RB01	RB02	FB01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M23-My0063718	M23-My0063753	M23-My0063754
Date Sampled			May 22, 2023	May 23, 2023	May 23, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFSAs)					
13C3-PFBS (surr.)	1	%	-	111	115
18O2-PFHxS (surr.)	1	%	-	100	105
13C8-PFOS (surr.)	1	%	-	92	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	112	125
13C2-6:2 FTSA (surr.)	1	%	-	72	80
13C2-8:2 FTSA (surr.)	1	%	-	65	85
13C2-10:2 FTSA (surr.)	1	%	-	103	102
PFASs Summations					
Sum (PFHxS + PFOS)*	0.01	ug/L	-	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 25, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 25, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 25, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 25, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 25, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 25, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 25, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 25, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 25, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 25, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	SB01_0-0.2	May 22, 2023		Soil	M23-My0063697				X						X	X			
2	SB01_0.4-0.6	May 22, 2023		Soil	M23-My0063698						X				X				
3	SB02_0-0.2	May 22, 2023		Soil	M23-My0063699						X				X				
4	SB03_0-0.2	May 22, 2023		Soil	M23-My0063700				X		X				X				
5	SB04_0-0.2	May 22, 2023		Soil	M23-My0063701										X	X			
6	SB04_0.2-0.4	May 22, 2023		Soil	M23-My0063702		X								X				X
7	SB05_0-0.2	May 22, 2023		Soil	M23-My0063703						X				X				
8	SB06_0-0.2	May 22, 2023		Soil	M23-My0063704										X	X			
9	SB07_0-0.2	May 22, 2023		Soil	M23-My0063705						X		X		X				
10	SB07_0.2-0.5	May 22, 2023		Soil	M23-My0063706		X				X				X				X
11	SB09_0-0.2	May 22, 2023		Soil	M23-My0063707		X								X	X			X
12	SB09_0.3-0.5	May 22, 2023		Soil	M23-My0063708						X		X		X				

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
13	SB12_0-0.2	May 22, 2023		Soil	M23-My0063709						X				X				
14	SB13_0-0.4	May 22, 2023		Soil	M23-My0063710				X	X		X			X	X			
15	SB14_0-0.2	May 22, 2023		Soil	M23-My0063711						X			X	X			X	
16	SB14_0.8-1.0	May 22, 2023		Soil	M23-My0063712						X				X				
17	SB15_0-0.2	May 22, 2023		Soil	M23-My0063713				X		X				X				
18	SB15_0.2-0.4	May 22, 2023		Soil	M23-My0063714						X				X				
19	SB17_0.2-0.5	May 22, 2023		Soil	M23-My0063715						X				X				
20	SB20_0-0.2	May 22, 2023		Soil	M23-My0063716						X				X				
21	DUP01	May 22, 2023		Soil	M23-My0063717						X				X				
22	RB01	May 22, 2023		Water	M23-My0063718												X		
23	SB16_0-0.2	May 23, 2023		Soil	M23-My0063719										X	X		X	
24	SB16_0.7-1.0	May 23, 2023		Soil	M23-My0063720					X		X			X	X			
25	SB18_0-0.2	May 23, 2023		Soil	M23-My0063721					X		X			X	X		X	
26	SB18_0.7-1.0	May 23, 2023		Soil	M23-My0063722									X	X				
27	SB19_0-0.2	May 23, 2023		Soil	M23-My0063723						X				X				

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
28	SB19_0.2-0.5	May 23, 2023		Soil	M23-My0063724				X		X				X				
29	SB20_0-0.2	May 23, 2023		Soil	M23-My0063725	X													
30	SB21_0-0.2	May 23, 2023		Soil	M23-My0063726										X	X			
31	SB22_0-0.2	May 23, 2023		Soil	M23-My0063727				X						X	X			
32	SB22_0.5-0.7	May 23, 2023		Soil	M23-My0063728						X				X				
33	SB23_0-0.2	May 23, 2023		Soil	M23-My0063729						X				X				
34	SB24_0-0.2	May 23, 2023		Soil	M23-My0063730				X						X	X			
35	SB24_0.7-1.0	May 23, 2023		Soil	M23-My0063731						X				X				
36	SB25_0-0.3	May 23, 2023		Soil	M23-My0063732					X		X			X	X			
37	SB26_0-0.2	May 23, 2023		Soil	M23-My0063733				X		X				X			X	
38	SB26_0.2-0.5	May 23, 2023		Soil	M23-My0063734						X				X				
39	SB26_0.7-1.0	May 23, 2023		Soil	M23-My0063735						X			X	X				
40	SB27_0-0.2	May 23, 2023		Soil	M23-My0063736										X	X			
41	SB28_0-0.3	May 23, 2023		Soil	M23-My0063737				X						X	X		X	
42	SB28_0.3-0.5	May 23, 2023		Soil	M23-My0063738						X				X				

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Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
43	SB28_0.7-1.0	May 23, 2023		Soil	M23-My0063739					X		X		X	X	X			
44	SB29_0-0.2	May 23, 2023		Soil	M23-My0063740				X		X				X				
45	SB29_0.7-1.0	May 23, 2023		Soil	M23-My0063741					X		X			X	X			
46	SB32_0-0.2	May 23, 2023		Soil	M23-My0063742		X		X				X	X	X	X		X	X
47	SB35_0-0.2	May 23, 2023		Soil	M23-My0063743		X						X	X	X	X		X	X
48	SB37_0-0.2	May 23, 2023		Soil	M23-My0063744								X	X	X	X		X	
49	SB37_0.4-0.6	May 23, 2023		Soil	M23-My0063745		X								X				X
50	SB39_0-0.2	May 23, 2023		Soil	M23-My0063746								X	X	X	X		X	
51	SB39_0.3-0.5	May 23, 2023		Soil	M23-My0063747		X				X				X				X
52	SB40_0-0.2	May 23, 2023		Soil	M23-My0063748		X						X	X	X	X		X	X
53	SB40_0.3-0.5	May 23, 2023		Soil	M23-My0063749						X				X				
54	DUP02	May 23, 2023		Soil	M23-My0063750						X				X				
55	DUP03	May 23, 2023		Soil	M23-My0063751						X				X				
56	DUP04	May 23, 2023		Soil	M23-My0063752										X	X		X	
57	RB02	May 23, 2023		Water	M23-My0063753												X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
58	FB01	May 23, 2023		Water	M23-My0063754													X	
59	SB01_0.2-0.4	May 22, 2023		Soil	M23-My0063755			X											
60	SB01_0.6-1.0	May 22, 2023		Soil	M23-My0063756			X											
61	SB02_0.2-0.5	May 22, 2023		Soil	M23-My0063757			X											
62	SB02_0.8-1.0	May 22, 2023		Soil	M23-My0063758			X											
63	SB03_0.2-0.4	May 22, 2023		Soil	M23-My0063759			X											
64	SB03_0.4-0.6	May 22, 2023		Soil	M23-My0063760			X											
65	SB03_0.6-1.0	May 22, 2023		Soil	M23-My0063761			X											
66	SB05_0.2-0.6	May 22, 2023		Soil	M23-My0063762			X											
67	SB05_0.6-1.0	May 22, 2023		Soil	M23-My0063763			X											
68	SB06_0.2-0.4	May 22, 2023		Soil	M23-My0063764			X											
69	SB06_0.6-0.8	May 22, 2023		Soil	M23-My0063765			X											
70	SB06_0.8-1.0	May 22, 2023		Soil	M23-My0063766			X											
71	SB07_0.5-0.8	May 22, 2023		Soil	M23-My0063767			X											
72	SB07_0.8-1.0	May 22, 2023		Soil	M23-My0063768			X											

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
73	SB09_0.6-0.8	May 22, 2023		Soil	M23-My0063769			X											
74	SB09_0.8-1.0	May 22, 2023		Soil	M23-My0063770			X											
75	SB12_0.2-0.6	May 22, 2023		Soil	M23-My0063771			X											
76	SB12_0.6-1.0	May 22, 2023		Soil	M23-My0063772			X											
77	SB13_0.4-0.8	May 22, 2023		Soil	M23-My0063773			X											
78	SB13_0.8-1.0	May 22, 2023		Soil	M23-My0063774			X											
79	SB14_0.5-0.8	May 22, 2023		Soil	M23-My0063775			X											
80	SB15_0.6-1.0	May 22, 2023		Soil	M23-My0063776			X											
81	SB17_0-0.2	May 22, 2023		Soil	M23-My0063777			X											
82	SB17_0.8-1.0	May 22, 2023		Soil	M23-My0063778			X											
83	SB20_0.2-0.5	May 22, 2023		Soil	M23-My0063779			X											
84	SB20_0.8-1.0	May 22, 2023		Soil	M23-My0063780			X											
85	SB16_0.3-0.5	May 23, 2023		Soil	M23-My0063781			X											
86	SB18_0.3-0.5	May 23, 2023		Soil	M23-My0063782			X											
87	SB19_0.7-1.0	May 23, 2023		Soil	M23-My0063783			X											

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Address: 100 Hutt St
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Project Name: URPS OSBOURNE
Project ID: 64648

Order No.:
Report #: 992922
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2023 1:00 PM
Due: May 31, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
88	SB20_0.3-0.5	May 23, 2023		Soil	M23-My0063784	X													
89	SB20_0.7-1.0	May 23, 2023		Soil	M23-My0063785	X													
90	SB21_0.3-0.5	May 23, 2023		Soil	M23-My0063786			X											
91	SB21_0.7-1.0	May 23, 2023		Soil	M23-My0063787			X											
92	SB22_0.8-1.0	May 23, 2023		Soil	M23-My0063788			X											
93	SB23_0.5-0.8	May 23, 2023		Soil	M23-My0063789			X											
94	SB23_0.9-1.0	May 23, 2023		Soil	M23-My0063790			X											
95	SB24_0.3-0.5	May 23, 2023		Soil	M23-My0063791			X											
96	SB25_0.5-0.7	May 23, 2023		Soil	M23-My0063792			X											
97	SB25_0.8-1.0	May 23, 2023		Soil	M23-My0063793			X											
98	SB27_0.6-0.8	May 23, 2023		Soil	M23-My0063794			X											
99	SB27_0.8-1.0	May 23, 2023		Soil	M23-My0063795			X											
100	SB29_0.3-0.5	May 23, 2023		Soil	M23-My0063796			X											
101	SB32_0.3-0.5	May 23, 2023		Soil	M23-My0063797			X											
102	SB32_0.8-1.0	May 23, 2023		Soil	M23-My0063798			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X					
103	SB35_0.5-0.7	May 23, 2023		Soil	M23-My0063799			X											
104	SB35_0.7-1.0	May 23, 2023		Soil	M23-My0063800			X											
105	SB37_0.7-1.0	May 23, 2023		Soil	M23-My0063801			X											
106	SB39_0.7-1.0	May 23, 2023		Soil	M23-My0063802			X											
107	SB40_0.7-1.0	May 23, 2023		Soil	M23-My0063803			X											
Test Counts						3	8	47	11	6	29	6	7	9	54	22	2	13	8

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	110			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	100			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	110			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	100			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	88			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	101			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	104			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	104			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	103			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	110			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	86			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	95			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S2	SAMPLERS: AB/JB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Joel Bowes	DATE: 25/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES
**Please send SPLIT05 and SPLIT06 to Envirolab for analysis with copy of this COC

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins					
SB08_0.0-0.2	Soil	25/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X														
SB08_0.3-0.5	Soil	25/05/2023		soil jar	1	-																		
SB08_0.7-1.0	Soil	25/05/2023		soil jar	1	-					X		X	X	X		X	X	X					
SB10_0.0-0.2	Soil	25/05/2023		soil jar	1	-																		
SB10_0.5-0.7	Soil	25/05/2023		soil jar	1	-							X											
SB10_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB11_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB11_0.2-0.4	Soil	25/05/2023		soil jar	1	-							X											
SB11_0.6-0.8	Soil	25/05/2023		soil jar	1	-																		
SB11_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB36_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB36_0.2-0.4	Soil	25/05/2023		soil jar	1	-																		
SB36_0.7-1.0	Soil	25/05/2023		soil jar	1	-							X											
SB38_0.0-0.2	Soil	25/05/2023		soil jar	1	-							X											
SB38_0.6-0.8	Soil	25/05/2023		soil jar	1	-		X																
SB38_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB41_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB41_0.4-0.6	Soil	25/05/2023		soil jar	1	-																		
SB41_0.8-1.0	Soil	25/05/2023		soil jar	1	-		X																
SB42_0.0-0.2	Soil	25/05/2023		soil jar	1	-																		
SB42_0.2-0.4	Soil	25/05/2023		soil jar	1	-		X																
SB42_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB43_0.0-0.2	Soil	25/05/2023		soil jar	1	-																		
SB43_0.4-0.6	Soil	25/05/2023		soil jar	1	-		X																
SB43_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB44_0.0-0.2	Soil	25/05/2023		soil jar	1	-																		
SB44_0.2-0.4	Soil	25/05/2023		soil jar	1	-																		
SB44_0.7-1.0	Soil	25/05/2023		soil jar	1	-							X											
SB45_0.0-0.2	Soil	25/05/2023		soil jar	1	-																		
SB45_0.5-0.7	Soil	25/05/2023		soil jar	1	-							X											
SB45_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB46_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB46_0.4-0.6	Soil	25/05/2023		soil jar	1	-																		
SB46_0.8-1.0	Soil	25/05/2023		soil jar	1	-		X																

#993641
2615

8

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S2	SAMPLERS: AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Joel Bowes	DATE: 25/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB47_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X															
SB47_0.3-0.5	Soil	25/05/2023		soil jar	1	-					X		X	X	X		X	X	X				
SB47_0.8-1.0	Soil	25/05/2023		soil jar	1	-																	
SB48_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X															
SB48_0.4-0.6	Soil	25/05/2023		soil jar	1	-																	
SB48_0.8-1.0	Soil	25/05/2023		soil jar	1	-																	
SB49_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X															
SB49_0.2-0.3	Soil	25/05/2023		soil jar	1	-							X										
SB49_0.5-0.7	Soil	25/05/2023		soil jar	1	-																	
SB49_0.8-1.0	Soil	25/05/2023		soil jar	1	-																	
SB51_0.0-0.2	Soil	25/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB51_0.2-0.4	Soil	25/05/2023		soil jar	1	-					X		X	X	X		X	X	X				
SB51_0.8-1.0	Soil	25/05/2023		soil jar	1	-																	
SB52_0.0-0.2	Soil	25/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X	X		X	X	X		X	X	X				
SB52_0.3-0.5	Soil	25/05/2023		soil jar	1	-																	
SB52_0.8-1.0	Soil	25/05/2023		soil jar	1	-																	
RB03	Water	25/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
DUP05	Soil	25/05/2023		soil jar	1	-							X										
SPLIT05	Soil	25/05/2023		soil jar	1	-							X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP06	Soil	25/05/2023		soil jar, PFAS jar	2	-			X														
SPLIT06	Soil	25/05/2023		soil jar, PFAS jar	1	-			X														PLEASE SEND TO ENVIROLAB FOR ANALYSIS
				TOTAL			1	12	6	3	4	0	13	4	4	0	4	4	4	0	0	0	

993441

2015

COPY

Tyrone Gowans

From: Parimal Acharya
Sent: Thursday, 25 May 2023 4:03 PM
To: #AU_CAU001_EnviroSampleVic; Callum McEwan
Cc: Amy Meunier
Subject: FW: Completed COC for soil samples collected from our office today (JBS&G job 64648)
Attachments: COC_64648S2_Eurofins.xlsx

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Incoming Transit

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi All,

Please find attached COC for the JBS&G's samples you will receive tomorrow in **esky #2-3**.

Kind Regards

Parimal Acharya

Eurofins Environment Testing
9 Main Tce,
RICHMOND SA 5033
AUSTRALIA
Phone : +61 8 8443 4430

Email : EnquiriesAdelaide@eurofins.com
Website : environment.eurofins.com.au

From: Kate Lough <klough@jbsg.com.au>
Sent: Thursday, 25 May 2023 3:14 PM
To: Parimal Acharya <ParimalAcharya@eurofins.com>; Amy Meunier <AmyMeunier@eurofins.com>
Subject: Completed COC for soil samples collected from our office today (JBS&G job 64648)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Parimal and Amy,

Please find attached completed COC for soil samples collected from our office today. Please note the following:

- Some samples are for SPOCAS analysis (short holding time; taken yesterday)
- SPLIT05 and SPLIT06 are to be sent to Envirolab for analysis (with copy of the COC please)

Thanks,
Kate

#993441
2615

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PROJECT INFORMATION

Date Received: 25/05/'23

Company: JBS&G.

Contact person: Joel Bowes

Contact Number: 0423 265 141

Contact E-mail:

Project Name/site:

Project Number: 64648

COC: Attached ☐
E-mailed ☑
Not received ☐

8.3°C
+0.3°C
8.6°C
on ice

#993441
25/5

OFFICIAL

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

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Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS Osborne
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	May 25, 2023 3:14 PM
Eurofins reference	993441

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **993441-S**
Project name URPS Osborne
Project ID 64648
Received Date May 25, 2023

Client Sample ID			**SB08_0.0-0.2**	**SB08_0.7-1.0**	**SB10_0.5-0.7**	**SB11_0.0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-My0068506**	**M23-My0068507**	**M23-My0068508**	**M23-My0068509**
Date Sampled			**May 25, 2023**	**May 25, 2023**	**May 25, 2023**	**May 25, 2023**
Test/Reference	LOR	Unit				
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	8.9	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.5	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.61	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.76	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.15	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	93	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.85	-	-	-
Calcium - Peroxide	0.005	% Ca	3.2	-	-	-
Calcium - Acid Reacted	0.005	% Ca	2.3	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	1.9	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	1200	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.28	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.98	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.70	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.92	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	570	-	-	-

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Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	8.4	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	2.7	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	1700	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	120	-	-	-
>2mm Fraction	0.005	g	< 0.005	-	-	-
Analysed Material	0.1	%	100	-	-	-
Extraneous Material	0.1	%	< 0.1	-	-	-
Sample Properties						
% Moisture	1	%	26	24	22	29
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	13	-	-	-
13C5-PFPeA (surr.)	1	%	27	-	-	-
13C5-PFHxA (surr.)	1	%	41	-	-	-
13C4-PFHpA (surr.)	1	%	65	-	-	-
13C8-PFOA (surr.)	1	%	70	-	-	-
13C5-PFNA (surr.)	1	%	57	-	-	-
13C6-PFDA (surr.)	1	%	59	-	-	-
13C2-PFUnDA (surr.)	1	%	53	-	-	-
13C2-PFDoDA (surr.)	1	%	66	-	-	-
13C2-PFTeDA (surr.)	1	%	81	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-

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Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	77	-	-	-
D3-N-MeFOSA (surr.)	1	%	82	-	-	-
D5-N-EtFOSA (surr.)	1	%	80	-	-	-
D7-N-MeFOSE (surr.)	1	%	76	-	-	-
D9-N-EtFOSE (surr.)	1	%	84	-	-	-
D5-N-EtFOSAA (surr.)	1	%	62	-	-	-
D3-N-MeFOSAA (surr.)	1	%	65	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	74	-	-	-
18O2-PFHxS (surr.)	1	%	69	-	-	-
13C8-PFOS (surr.)	1	%	60	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	29	-	-	-
13C2-6:2 FTSA (surr.)	1	%	38	-	-	-
13C2-8:2 FTSA (surr.)	1	%	62	-	-	-
13C2-10:2 FTSA (surr.)	1	%	70	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-

eurofins | Environment Testing

Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	64	66	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	64	-	-
Toluene-d8 (surr.)	1	%	-	61	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	90	51	-
p-Terphenyl-d14 (surr.)	1	%	-	60	114	-

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Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	80	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	85	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-

eurofins | Environment Testing

Client Sample ID			SB08_0.0-0.2	SB08_0.7-1.0	SB10_0.5-0.7	SB11_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068506	M23-My0068507	M23-My0068508	M23-My0068509
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	67	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	80	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	85	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	80	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.5	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	3.1	6.0	6.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	9.7	40	65
Copper	5	mg/kg	-	< 5	17	30
Lead	5	mg/kg	-	19	8.8	17
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	17	28
Zinc	5	mg/kg	-	28	26	53

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Client Sample ID			SB11_0.2-0.4	SB36_0.0-0.2	SB36_0.7-1.0	SB38_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068510	M23-My0068511	M23-My0068512	M23-My0068513
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	25	12	12	20
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	-	101	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	-	108	93
p-Terphenyl-d14 (surr.)	1	%	109	-	113	111

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Client Sample ID			SB11_0.2-0.4	SB36_0.0-0.2	SB36_0.7-1.0	SB38_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068510	M23-My0068511	M23-My0068512	M23-My0068513
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.9	5.6	2.7	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	50	27	11	18
Copper	5	mg/kg	25	15	5.2	9.8
Lead	5	mg/kg	16	8.9	< 5	7.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	11	< 5	8.2
Zinc	5	mg/kg	46	25	8.4	18

Client Sample ID			SB38_0.6-0.8	SB41_0.0-0.2	SB41_0.8-1.0	SB42_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068514	M23-My0068515	M23-My0068516	M23-My0068517
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	44	22	27	39
Heavy Metals						
Arsenic	2	mg/kg	14	7.2	7.6	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.9
Chromium	5	mg/kg	46	63	42	69
Copper	5	mg/kg	34	33	24	66
Lead	5	mg/kg	38	18	15	71
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	0.6
Nickel	5	mg/kg	22	30	20	32
Zinc	5	mg/kg	81	54	42	170

Client Sample ID			SB43_0.4-0.6	SB44_0.7-1.0	SB45_0.5-0.7	SB46_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068518	M23-My0068519	M23-My0068520	M23-My0068521
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	35	28	31	13
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

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Client Sample ID			SB43_0.4-0.6	SB44_0.7-1.0	SB45_0.5-0.7	SB46_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068518	M23-My0068519	M23-My0068520	M23-My0068521
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	93	98	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	66	67	-
p-Terphenyl-d14 (surr.)	1	%	-	67	61	-
Heavy Metals						
Arsenic	2	mg/kg	9.2	2.3	9.5	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	56	5.9	50	5.0
Copper	5	mg/kg	36	< 5	32	< 5
Lead	5	mg/kg	27	< 5	24	< 5
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	< 5	23	< 5
Zinc	5	mg/kg	69	6.1	65	8.0

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Client Sample ID			SB46_0.8-1.0	SB47_0.0-0.2	SB47_0.3-0.5	SB48_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068522	M23-My0068523	M23-My0068524	M23-My0068525
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	31	5.4	25	27
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	61	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB46_0.8-1.0	SB47_0.0-0.2	SB47_0.3-0.5	SB48_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068522	M23-My0068523	M23-My0068524	M23-My0068525
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	61	-
Toluene-d8 (surr.)	1	%	-	-	61	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB46_0.8-1.0	SB47_0.0-0.2	SB47_0.3-0.5	SB48_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068522	M23-My0068523	M23-My0068524	M23-My0068525
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	76	-
p-Terphenyl-d14 (surr.)	1	%	-	-	61	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	83	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-

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Client Sample ID			SB46_0.8-1.0	SB47_0.0-0.2	SB47_0.3-0.5	SB48_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068522	M23-My0068523	M23-My0068524	M23-My0068525
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	87	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	83	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	103	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	7.9	-

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Client Sample ID			SB46_0.8-1.0	SB47_0.0-0.2	SB47_0.3-0.5	SB48_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068522	M23-My0068523	M23-My0068524	M23-My0068525
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.3	< 2	< 2	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.5	< 5	< 5	13
Copper	5	mg/kg	< 5	< 5	< 5	6.2
Lead	5	mg/kg	< 5	< 5	< 5	5.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	5.8
Zinc	5	mg/kg	5.7	< 5	< 5	12

Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.0	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.6	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.25	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.54	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.29	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	180	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.44	-
Calcium - Peroxide	0.005	% Ca	-	-	4.2	-
Calcium - Acid Reacted	0.005	% Ca	-	-	3.8	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	3.0	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	1900	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.18	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.90	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.71	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.94	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	590	-

eurofins | Environment Testing

Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	12	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	3.8	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	2400	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	120	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-
Sample Properties						
% Moisture	1	%	23	29	21	39
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	16	-
13C5-PFPeA (surr.)	1	%	-	-	31	-
13C5-PFHxA (surr.)	1	%	-	-	50	-
13C4-PFHpA (surr.)	1	%	-	-	75	-
13C8-PFOA (surr.)	1	%	-	-	77	-
13C5-PFNA (surr.)	1	%	-	-	69	-
13C6-PFDA (surr.)	1	%	-	-	67	-
13C2-PFUnDA (surr.)	1	%	-	-	54	-
13C2-PFDoDA (surr.)	1	%	-	-	75	-
13C2-PFTeDA (surr.)	1	%	-	-	94	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-

eurofins | Environment Testing

Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	75	-
D3-N-MeFOSA (surr.)	1	%	-	-	84	-
D5-N-EtFOSA (surr.)	1	%	-	-	83	-
D7-N-MeFOSE (surr.)	1	%	-	-	112	-
D9-N-EtFOSE (surr.)	1	%	-	-	92	-
D5-N-EtFOSAA (surr.)	1	%	-	-	75	-
D3-N-MeFOSAA (surr.)	1	%	-	-	76	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	76	-
18O2-PFHxS (surr.)	1	%	-	-	81	-
13C8-PFOS (surr.)	1	%	-	-	58	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	29	-
13C2-6:2 FTSA (surr.)	1	%	-	-	46	-
13C2-8:2 FTSA (surr.)	1	%	-	-	81	-
13C2-10:2 FTSA (surr.)	1	%	-	-	83	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50

eurofins | Environment Testing

Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	81	-	98
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	98
Toluene-d8 (surr.)	1	%	-	-	-	109
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	93	-	97
p-Terphenyl-d14 (surr.)	1	%	-	58	-	105

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Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	51
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2

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Client Sample ID			SB49_0.0-0.2	SB49_0.2-0.3	SB51_0.0-0.2	SB51_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0068526	M23-My0068527	M23-My0068528	M23-My0068529
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	51
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	93
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.4
Heavy Metals						
Arsenic	2	mg/kg	3.4	4.9	-	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	0.8
Chromium	5	mg/kg	12	17	-	66
Copper	5	mg/kg	11	17	-	60
Lead	5	mg/kg	13	20	-	62
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	0.5
Nickel	5	mg/kg	5.6	8.3	-	30
Zinc	5	mg/kg	34	47	-	150

eurofins | Environment Testing

Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Actual Acidity (NLM-3.2)					
pH-KCL (NLM-3.1)	0.1	pH Units	9.0	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-
Potential Acidity - Titratable Peroxide					
pH-OX	0.1	pH Units	8.6	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-
Extractable Sulfur					
Sulfur - KCl Extractable	0.005	% S	0.23	-	-
Peroxide Extractable Sulfur	0.005	% S	0.55	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-
Potential Acidity (SPOS)					
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.32	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	200	-	-
Retained Acidity (S-NAS)					
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-
Extractable Calcium					
Calcium - KCl Extractable	0.005	% Ca	0.44	-	-
Calcium - Peroxide	0.005	% Ca	4.0	-	-
Calcium - Acid Reacted	0.005	% Ca	3.6	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	2.9	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	1800	-	-
Extractable Magnesium					
Magnesium - KCl Extractable	0.005	% Mg	0.18	-	-
Magnesium - Peroxide	0.005	% Mg	0.62	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.44	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.58	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	360	-	-
Acid Neutralising Capacity (ANCE)					
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	10.0	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	3.2	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	2000	-	-
Acid Neutralising Capacity (ANCbt)					
ANC Fineness Factor		factor	1.5	-	-
Net Acidity (Including ANC)					
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-
Extraneous Material					
<2mm Fraction	0.005	g	140	-	-
>2mm Fraction	0.005	g	< 0.005	-	-
Analysed Material	0.1	%	100	-	-
Extraneous Material	0.1	%	< 0.1	-	-
Sample Properties					
% Moisture	1	%	25	18	31

eurofins | Environment Testing

Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5
13C4-PFBA (surr.)	1	%	15	-	11
13C5-PFPeA (surr.)	1	%	28	-	24
13C5-PFHxA (surr.)	1	%	45	-	37
13C4-PFHpA (surr.)	1	%	70	-	58
13C8-PFOA (surr.)	1	%	69	-	56
13C5-PFNA (surr.)	1	%	63	-	51
13C6-PFDA (surr.)	1	%	62	-	55
13C2-PFUnDA (surr.)	1	%	66	-	53
13C2-PFDoDA (surr.)	1	%	66	-	59
13C2-PFTeDA (surr.)	1	%	84	-	69
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10
13C8-FOSA (surr.)	1	%	73	-	63
D3-N-MeFOSA (surr.)	1	%	76	-	56
D5-N-EtFOSA (surr.)	1	%	75	-	64
D7-N-MeFOSE (surr.)	1	%	65	-	75
D9-N-EtFOSE (surr.)	1	%	78	-	64
D5-N-EtFOSAA (surr.)	1	%	54	-	36
D3-N-MeFOSAA (surr.)	1	%	65	-	50
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5

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Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFSAs)					
13C3-PFBS (surr.)	1	%	67	-	64
18O2-PFHxS (surr.)	1	%	86	-	66
13C8-PFOS (surr.)	1	%	74	-	56
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	33	-	20
13C2-6:2 FTSA (surr.)	1	%	46	-	45
13C2-8:2 FTSA (surr.)	1	%	53	-	45
13C2-10:2 FTSA (surr.)	1	%	78	-	56
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	82	75	-
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-

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Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Volatile Organics					
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Volatile Organics					
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	82	-	-
Toluene-d8 (surr.)	1	%	93	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	67	72	-
p-Terphenyl-d14 (surr.)	1	%	59	60	-
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-

eurofins | Environment Testing

Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Toxaphene	0.5	mg/kg	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	55	-	-
Tetrachloro-m-xylene (surr.)	1	%	52	-	-
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	-	-
Naled	0.2	mg/kg	< 0.2	-	-
Omethoate	2	mg/kg	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	54	-	-
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-

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Client Sample ID			SB52_0.0-0.2	DUP05	DUP06
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-My0068530	M23-My0068532	M23-My0068533
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit			
Polychlorinated Biphenyls					
Aroclor-1254	0.1	mg/kg	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	55	-	-
Tetrachloro-m-xylene (surr.)	1	%	52	-	-
Organotins					
Tributyltin	1.25	mg/kg	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-
Dibutyltin	1	mg/kg	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	104	-	-
Cyanide (total)	5	mg/kg	< 5	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	7.7	-	-
Heavy Metals					
Arsenic	2	mg/kg	10	4.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-
Chromium	5	mg/kg	61	16	-
Copper	5	mg/kg	41	7.4	-
Lead	5	mg/kg	38	5.3	-
Mercury	0.1	mg/kg	0.2	< 0.1	-
Nickel	5	mg/kg	28	6.9	-
Zinc	5	mg/kg	93	13	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 02, 2023	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 02, 2023	6 Week
- Method: LTM-GEN-7050/7070			
% Moisture	Melbourne	May 26, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 26, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 30, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Melbourne	May 30, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	May 30, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Organotins	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Cyanide (total)	Melbourne	May 30, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	May 30, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	May 30, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	SB08_0.0-0.2	May 25, 2023		Soil	M23-My0068506								X	X			X	
2	SB08_0.7-1.0	May 25, 2023		Soil	M23-My0068507	X		X	X		X	X		X	X			X
3	SB10_0.5-0.7	May 25, 2023		Soil	M23-My0068508									X	X			
4	SB11_0.0-0.2	May 25, 2023		Soil	M23-My0068509					X				X				
5	SB11_0.2-0.4	May 25, 2023		Soil	M23-My0068510									X	X			
6	SB36_0.0-0.2	May 25, 2023		Soil	M23-My0068511					X				X				
7	SB36_0.7-1.0	May 25, 2023		Soil	M23-My0068512									X	X			
8	SB38_0.0-0.2	May 25, 2023		Soil	M23-My0068513									X	X			
9	SB38_0.6-0.8	May 25, 2023		Soil	M23-My0068514					X				X				
10	SB41_0.0-0.2	May 25, 2023		Soil	M23-My0068515					X				X				
11	SB41_0.8-1.0	May 25, 2023		Soil	M23-My0068516					X				X				
12	SB42_0.2-0.4	May 25, 2023		Soil	M23-My0068517					X				X				

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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
13	SB43_0.4-0.6	May 25, 2023		Soil	M23-My0068518					X				X				
14	SB44_0.7-1.0	May 25, 2023		Soil	M23-My0068519									X	X			
15	SB45_0.5-0.7	May 25, 2023		Soil	M23-My0068520									X	X			
16	SB46_0.0-0.2	May 25, 2023		Soil	M23-My0068521					X				X				
17	SB46_0.8-1.0	May 25, 2023		Soil	M23-My0068522					X				X				
18	SB47_0.0-0.2	May 25, 2023		Soil	M23-My0068523					X				X				
19	SB47_0.3-0.5	May 25, 2023		Soil	M23-My0068524	X		X	X		X	X		X	X			X
20	SB48_0.0-0.2	May 25, 2023		Soil	M23-My0068525					X				X				
21	SB49_0.0-0.2	May 25, 2023		Soil	M23-My0068526					X				X				
22	SB49_0.2-0.3	May 25, 2023		Soil	M23-My0068527									X	X			
23	SB51_0.0-0.2	May 25, 2023		Soil	M23-My0068528								X	X			X	
24	SB51_0.2-0.4	May 25, 2023		Soil	M23-My0068529	X		X	X		X	X		X	X			X
25	SB52_0.0-0.2	May 25, 2023		Soil	M23-My0068530	X		X	X		X	X	X	X	X		X	X
26	RB03	May 25, 2023		Water	M23-My0068531											X	X	
27	DUP05	May 25, 2023		Soil	M23-My0068532									X	X			

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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
28	DUP06	May 25, 2023		Soil	M23-My0068533									X			X	
29	SB08_0.3-0.5	May 25, 2023		Soil	M23-My0068534		X											
30	SB10_0.0-0.2	May 25, 2023		Soil	M23-My0068535		X											
31	SB10_0.8-1.0	May 25, 2023		Soil	M23-My0068536		X											
32	SB11_0.6-0.8	May 25, 2023		Soil	M23-My0068537		X											
33	SB11_0.8-1.0	May 25, 2023		Soil	M23-My0068538		X											
34	SB36_0.2-0.4	May 25, 2023		Soil	M23-My0068539		X											
35	SB38_0.8-1.0	May 25, 2023		Soil	M23-My0068540		X											
36	SB41_0.4-0.6	May 25, 2023		Soil	M23-My0068541		X											
37	SB42_0.0-0.2	May 25, 2023		Soil	M23-My0068542		X											
38	SB42_0.8-1.0	May 25, 2023		Soil	M23-My0068543		X											
39	SB43_0.0-0.2	May 25, 2023		Soil	M23-My0068544		X											
40	SB43_0.8-1.0	May 25, 2023		Soil	M23-My0068545		X											
41	SB44_0.0-0.2	May 25, 2023		Soil	M23-My0068546		X											
42	SB44_0.2-0.4	May 25, 2023		Soil	M23-My0068547		X											

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Order No.:
Report #: 993441
Phone: 08 8431 7113
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Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
43	SB45_0.0-0.2	May 25, 2023		Soil	M23-My0068548		X											
44	SB45_0.8-1.0	May 25, 2023		Soil	M23-My0068549		X											
45	SB46_0.4-0.6	May 25, 2023		Soil	M23-My0068550		X											
46	SB47_0.8-1.0	May 25, 2023		Soil	M23-My0068551		X											
47	SB48_0.4-0.6	May 25, 2023		Soil	M23-My0068552		X											
48	SB48_0.8-1.0	May 25, 2023		Soil	M23-My0068553		X											
49	SB49_0.5-0.7	May 25, 2023		Soil	M23-My0068554		X											
50	SB49_0.8-1.0	May 25, 2023		Soil	M23-My0068555		X											
51	SB51_0.8-1.0	May 25, 2023		Soil	M23-My0068556		X											
52	SB52_0.3-0.5	May 25, 2023		Soil	M23-My0068557		X											
53	SB52_0.8-1.0	May 25, 2023		Soil	M23-My0068558		X											
Test Counts						4	25	4	4	12	4	4	3	27	12	1	5	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	95			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	93			80-120	Pass	
LCS - % Recovery							
Extractable Sulfur							
HCl Extractable Sulfur	%	110			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	77			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	81			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	72			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	79			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	80			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	78			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	81			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	99			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	76			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	76			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	76			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	108			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	90			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	79			70-130	Pass	
TRH C10-C14	%	101			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	116			70-130	Pass	
m&p-Xylenes	%	115			70-130	Pass	
Xylenes - Total*	%	116			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	75			70-130	Pass	
1.1.1-Trichloroethane	%	79			70-130	Pass	
1.2-Dichlorobenzene	%	101			70-130	Pass	
1.2-Dichloroethane	%	103			70-130	Pass	
Trichloroethene	%	118			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	97			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	82			70-130	Pass	
Anthracene	%	74			70-130	Pass	
Benz(a)anthracene	%	78			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	73			70-130	Pass	
Benzo(g.h.i)perylene	%	77			70-130	Pass	
Benzo(k)fluoranthene	%	114			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a.h)anthracene	%	75			70-130	Pass	
Fluoranthene	%	72			70-130	Pass	
Fluorene	%	73			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	70			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	81			70-130	Pass	
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	92			70-130	Pass	
4.4'-DDT	%	78			70-130	Pass	
a-HCH	%	87			70-130	Pass	
Aldrin	%	84			70-130	Pass	
b-HCH	%	93			70-130	Pass	
d-HCH	%	93			70-130	Pass	
Dieldrin	%	96			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endosulfan sulphate	%	92			70-130	Pass	
Endrin	%	85			70-130	Pass	
Endrin aldehyde	%	88			70-130	Pass	
Endrin ketone	%	108			70-130	Pass	
g-HCH (Lindane)	%	97			70-130	Pass	
Heptachlor	%	80			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	%	78			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	75			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	79			70-130	Pass	
Dimethoate	%	75			70-130	Pass	
Ethion	%	114			70-130	Pass	
Fenitrothion	%	89			70-130	Pass	
Methyl parathion	%	75			70-130	Pass	
Mevinphos	%	128			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	90			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	79			60-140	Pass	
Dibutyltin as Sn	%	108			60-140	Pass	
Monobutyltin as Sn	%	115			60-140	Pass	
LCS - % Recovery							
Cyanide (total)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	110			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	115			80-120	Pass	
Copper	%	112			80-120	Pass	
Lead	%	114			80-120	Pass	
Mercury	%	116			80-120	Pass	
Nickel	%	109			80-120	Pass	
Zinc	%	111			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	L23-My0071409	NCP	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	L23-My0071409	NCP	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	L23-My0071409	NCP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	L23-My0071409	NCP	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	L23-My0071409	NCP	%	85			50-150	Pass	
Perfluorononanoic acid (PFNA)	L23-My0071409	NCP	%	89			50-150	Pass	
Perfluorodecanoic acid (PFDA)	L23-My0071409	NCP	%	98			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	L23-My0071409	NCP	%	106			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	L23-My0071409	NCP	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	L23-My0071409	NCP	%	95			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	L23-My0071409	NCP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	L23-My0071409	NCP	%	99			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	L23-My0071409	NCP	%	93			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	L23-My0071409	NCP	%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	L23-My0071409	NCP	%	115			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	L23-My0071409	NCP	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	L23-My0071409	NCP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	L23-My0071409	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	L23-My0071409	NCP	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	L23-My0071409	NCP	%	83			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	L23-My0071409	NCP	%	101			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	L23-My0071409	NCP	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	L23-My0071409	NCP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	L23-My0071409	NCP	%	133			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	L23-My0071409	NCP	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	L23-My0071409	NCP	%	104			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	L23-My0071409	NCP	%	106			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	L23-My0071409	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	L23-My0071409	NCP	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	L23-My0071409	NCP	%	89			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0065746	NCP	%	79			70-130	Pass	
TRH C6-C10	M23-My0065746	NCP	%	80			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0065746	NCP	%	82			70-130	Pass	
Toluene	M23-My0065746	NCP	%	71			70-130	Pass	
Ethylbenzene	M23-My0065746	NCP	%	107			70-130	Pass	
m&p-Xylenes	M23-My0065746	NCP	%	108			70-130	Pass	
o-Xylene	M23-My0065746	NCP	%	112			70-130	Pass	
Xylenes - Total*	M23-My0065746	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-My0072132	NCP	%	75			70-130	Pass	
1.1.1-Trichloroethane	M23-My0065746	NCP	%	74			70-130	Pass	
1.2-Dichlorobenzene	M23-My0065746	NCP	%	128			70-130	Pass	
1.2-Dichloroethane	M23-My0065746	NCP	%	93			70-130	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	M23-My0065746	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0065746	NCP	%	125			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-My0065568	NCP	%	82			70-130	Pass	
4.4'-DDD	M23-My0065568	NCP	%	122			70-130	Pass	
4.4'-DDE	M23-My0065568	NCP	%	127			70-130	Pass	
4.4'-DDT	M23-My0065568	NCP	%	97			70-130	Pass	
a-HCH	M23-My0065568	NCP	%	100			70-130	Pass	
Aldrin	M23-My0065568	NCP	%	88			70-130	Pass	
b-HCH	M23-My0065568	NCP	%	107			70-130	Pass	
d-HCH	M23-My0065568	NCP	%	77			70-130	Pass	
Dieldrin	M23-My0065568	NCP	%	101			70-130	Pass	
Endosulfan I	M23-My0065568	NCP	%	101			70-130	Pass	
Endosulfan II	M23-My0065568	NCP	%	115			70-130	Pass	
Endosulfan sulphate	M23-My0065568	NCP	%	77			70-130	Pass	
Endrin	M23-My0065568	NCP	%	99			70-130	Pass	
Endrin aldehyde	M23-My0065568	NCP	%	103			70-130	Pass	
Endrin ketone	M23-My0065568	NCP	%	104			70-130	Pass	
g-HCH (Lindane)	M23-My0065568	NCP	%	113			70-130	Pass	
Heptachlor	M23-My0065568	NCP	%	88			70-130	Pass	
Heptachlor epoxide	M23-My0065568	NCP	%	95			70-130	Pass	
Hexachlorobenzene	M23-My0065568	NCP	%	103			70-130	Pass	
Methoxychlor	M23-My0065568	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M23-Jn0004072	NCP	%	88			70-130	Pass	
Ethion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Fenitrothion	M23-Jn0004072	NCP	%	72			70-130	Pass	
Methyl parathion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M23-My0078237	NCP	%	81			70-130	Pass	
Aroclor-1260	M23-My0078237	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M23-My0075913	NCP	%	76			60-140	Pass	
Dibutyltin as Sn	M23-My0075913	NCP	%	112			60-140	Pass	
Monobutyltin as Sn	M23-My0075913	NCP	%	94			60-140	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-My0068508	CP	%	106			70-130	Pass	
TRH >C10-C16	M23-My0068508	CP	%	103			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0068508	CP	%	102			75-125	Pass	
Cadmium	M23-My0068508	CP	%	98			75-125	Pass	
Chromium	M23-My0068508	CP	%	76			75-125	Pass	
Copper	M23-My0068508	CP	%	87			75-125	Pass	
Lead	M23-My0068508	CP	%	98			75-125	Pass	
Mercury	M23-My0068508	CP	%	101			75-125	Pass	
Nickel	M23-My0068508	CP	%	89			75-125	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc	M23-My0068508	CP	%	78			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0068518	CP	%	80			75-125	Pass	
Cadmium	M23-My0068518	CP	%	94			75-125	Pass	
Chromium	M23-My0068518	CP	%	84			75-125	Pass	
Copper	M23-My0068518	CP	%	83			75-125	Pass	
Lead	M23-My0068518	CP	%	87			75-125	Pass	
Mercury	M23-My0068518	CP	%	111			75-125	Pass	
Nickel	M23-My0068518	CP	%	80			75-125	Pass	
Zinc	M23-My0068518	CP	%	94			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-My0068527	CP	%	105			70-130	Pass	
Acenaphthylene	M23-My0068527	CP	%	95			70-130	Pass	
Anthracene	M23-My0068527	CP	%	125			70-130	Pass	
Benz(a)anthracene	M23-My0068527	CP	%	105			70-130	Pass	
Benzo(a)pyrene	M23-My0068527	CP	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	M23-My0068527	CP	%	110			70-130	Pass	
Benzo(g.h.i)perylene	M23-My0068527	CP	%	86			70-130	Pass	
Benzo(k)fluoranthene	M23-My0068527	CP	%	122			70-130	Pass	
Chrysene	M23-My0068527	CP	%	102			70-130	Pass	
Dibenz(a.h)anthracene	M23-My0068527	CP	%	106			70-130	Pass	
Fluoranthene	M23-My0068527	CP	%	103			70-130	Pass	
Fluorene	M23-My0068527	CP	%	71			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0068527	CP	%	119			70-130	Pass	
Naphthalene	M23-My0068527	CP	%	115			70-130	Pass	
Phenanthrene	M23-My0068527	CP	%	82			70-130	Pass	
Pyrene	M23-My0068527	CP	%	106			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Dimethoate	M23-My0061988	NCP	%	79			70-130	Pass	
Mevinphos	M23-My0061988	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-My0068532	CP	%	75			70-130	Pass	
TRH >C10-C16	M23-My0068532	CP	%	74			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M23-My0065513	NCP	pH Units	5.5	5.5	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-My0065513	NCP	mol H+/t	11	11	1.8	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-My0065513	NCP	% pyrite S	0.018	0.017	1.8	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M23-My0065513	NCP	pH Units	4.3	4.3	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M23-My0065513	NCP	% pyrite S	0.03	0.03	3.0	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M23-My0065513	NCP	mol H+/t	20	21	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M23-My0065513	NCP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M23-My0065513	NCP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M23-My0065513	NCP	% S	< 0.005	< 0.005	<1	30%	Pass	
Peroxide Extractable Sulfur	M23-My0065513	NCP	% S	0.024	0.024	<1	20%	Pass	
HCl Extractable Sulfur	M23-My0065513	NCP	% S	N/A	N/A	N/A	20%	Pass	

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Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M23-My0065513	NCP	% S	0.024	0.024	<1	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M23-My0065513	NCP	mol H+/t	15	15	<1	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M23-My0065513	NCP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M23-My0065513	NCP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M23-My0065513	NCP	% Ca	0.008	0.008	<1	30%	Pass	
Calcium - Peroxide	M23-My0065513	NCP	% Ca	0.010	0.010	6.9	20%	Pass	
Calcium - Acid Reacted	M23-My0065513	NCP	% Ca	< 0.005	< 0.005	<1	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M23-My0065513	NCP	% S	< 0.005	< 0.005	<1	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M23-My0065513	NCP	mol H+/t	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M23-My0065513	NCP	% Mg	0.009	0.009	3.6	30%	Pass	
Magnesium - Peroxide	M23-My0065513	NCP	% Mg	0.010	0.010	2.1	20%	Pass	
Magnesium - Acid Reacted	M23-My0065513	NCP	% Mg	< 0.005	< 0.005	<1	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M23-My0065513	NCP	% S	< 0.005	< 0.005	<1	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M23-My0065513	NCP	mol H+/t	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M23-My0065513	NCP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M23-My0065513	NCP	mol H+/t	n/a	n/a	N/A	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M23-My0065513	NCP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M23-My0065513	NCP	mol H+/t	26	26	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M23-My0065513	NCP	% S	0.04	0.04	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M23-My0065513	NCP	kg CaCO3/t	1.9	1.9	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0065889	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0065889	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0065889	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0065889	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0068507	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-My0068507	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0068507	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0068507	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-My0068507	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-My0068507	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0068507	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0068507	CP	mg/kg	< 100	< 100	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0068507	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-My0068507	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-My0068507	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-My0068507	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Dimethoate	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-My0068507	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-My0068507	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-My0068507	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-My0068507	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M23-Jn0002418	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M23-Jn0002418	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M23-Jn0002418	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M23-Jn0002418	NCP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M23-My0065736	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0068507	CP	mg/kg	3.1	5.7	60	30%	Fail	Q15
Cadmium	M23-My0068507	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0068507	CP	mg/kg	9.7	16	49	30%	Fail	Q15
Copper	M23-My0068507	CP	mg/kg	< 5	7.7	44	30%	Fail	Q15
Lead	M23-My0068507	CP	mg/kg	19	38	65	30%	Fail	Q15
Mercury	M23-My0068507	CP	mg/kg	< 0.1	0.1	26	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	M23-My0068507	CP	mg/kg	< 5	5.9	52	30%	Fail	Q15
Zinc	M23-My0068507	CP	mg/kg	28	33	18	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0068508	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-My0068508	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0068508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0068508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0068508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0068508	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0068508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0068508	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0068508	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0068508	CP	mg/kg	6.0	5.9	2.2	30%	Pass	
Cadmium	M23-My0068508	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0068508	CP	mg/kg	40	40	<1	30%	Pass	
Copper	M23-My0068508	CP	mg/kg	17	18	<1	30%	Pass	
Lead	M23-My0068508	CP	mg/kg	8.8	8.8	<1	30%	Pass	
Mercury	M23-My0068508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0068508	CP	mg/kg	17	17	<1	30%	Pass	
Zinc	M23-My0068508	CP	mg/kg	26	25	3.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0068513	CP	%	20	24	19	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0068517	CP	mg/kg	13	10	24	30%	Pass	
Cadmium	M23-My0068517	CP	mg/kg	0.9	0.5	54	30%	Fail	Q15
Chromium	M23-My0068517	CP	mg/kg	69	58	16	30%	Pass	
Copper	M23-My0068517	CP	mg/kg	66	49	30	30%	Pass	
Lead	M23-My0068517	CP	mg/kg	71	48	38	30%	Fail	Q15
Mercury	M23-My0068517	CP	mg/kg	0.6	0.4	44	30%	Fail	Q15
Nickel	M23-My0068517	CP	mg/kg	32	27	15	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0068518	CP	mg/kg	9.2	9.0	1.5	30%	Pass	
Cadmium	M23-My0068518	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0068518	CP	mg/kg	56	57	1.7	30%	Pass	
Copper	M23-My0068518	CP	mg/kg	36	36	1.1	30%	Pass	
Lead	M23-My0068518	CP	mg/kg	27	27	1.0	30%	Pass	
Mercury	M23-My0068518	CP	mg/kg	0.2	0.2	<1	30%	Pass	
Nickel	M23-My0068518	CP	mg/kg	25	25	1.4	30%	Pass	
Zinc	M23-My0068518	CP	mg/kg	69	71	2.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0068523	CP	%	5.4	5.8	7.5	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-My0068524	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0068524	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0068524	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-My0068524	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0068524	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0068524	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-My0068524	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-My0068524	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	M23-My0068524	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-My0068524	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-My0068524	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-My0068524	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-My0068524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-My0073911	NCP	pH Units	8.3	8.4	pass	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Catherine Wilson	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Inorganic
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Caitlin Breeze	Senior Analyst-Metal
Carroll Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-SPOCAS
Carroll Lee	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **993441-W**
Project name URPS Osborne
Project ID 64648
Received Date May 25, 2023

Client Sample ID			**RB03**
Sample Matrix			**Water**
Eurofins Sample No.			**M23-My0068531**
Date Sampled			**May 25, 2023**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	105
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

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Client Sample ID			RB03
Sample Matrix			Water
Eurofins Sample No.			M23-My0068531
Date Sampled			May 25, 2023
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	107
13C5-PFPeA (surr.)	1	%	104
13C5-PFHxA (surr.)	1	%	107
13C4-PFHpA (surr.)	1	%	103
13C8-PFOA (surr.)	1	%	102
13C5-PFNA (surr.)	1	%	110
13C6-PFDA (surr.)	1	%	113
13C2-PFUnDA (surr.)	1	%	88
13C2-PFDoDA (surr.)	1	%	83
13C2-PFTeDA (surr.)	1	%	63
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	93
D3-N-MeFOSA (surr.)	1	%	72
D5-N-EtFOSA (surr.)	1	%	63
D7-N-MeFOSE (surr.)	1	%	83
D9-N-EtFOSE (surr.)	1	%	79
D5-N-EtFOSAA (surr.)	1	%	86
D3-N-MeFOSAA (surr.)	1	%	80
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01

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Client Sample ID			RB03
Sample Matrix			Water
Eurofins Sample No.			M23-My0068531
Date Sampled			May 25, 2023
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFSAs)			
13C3-PFBS (surr.)	1	%	114
18O2-PFHxS (surr.)	1	%	98
13C8-PFOS (surr.)	1	%	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01
13C2-4:2 FTSA (surr.)	1	%	111
13C2-6:2 FTSA (surr.)	1	%	73
13C2-8:2 FTSA (surr.)	1	%	83
13C2-10:2 FTSA (surr.)	1	%	103
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 26, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 26, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 26, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 26, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 26, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 26, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 26, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 26, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 26, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 26, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	SB08_0.0-0.2	May 25, 2023		Soil	M23-My0068506								X	X			X	
2	SB08_0.7-1.0	May 25, 2023		Soil	M23-My0068507	X		X	X		X	X		X	X			X
3	SB10_0.5-0.7	May 25, 2023		Soil	M23-My0068508									X	X			
4	SB11_0.0-0.2	May 25, 2023		Soil	M23-My0068509					X				X				
5	SB11_0.2-0.4	May 25, 2023		Soil	M23-My0068510									X	X			
6	SB36_0.0-0.2	May 25, 2023		Soil	M23-My0068511					X				X				
7	SB36_0.7-1.0	May 25, 2023		Soil	M23-My0068512									X	X			
8	SB38_0.0-0.2	May 25, 2023		Soil	M23-My0068513									X	X			
9	SB38_0.6-0.8	May 25, 2023		Soil	M23-My0068514					X				X				
10	SB41_0.0-0.2	May 25, 2023		Soil	M23-My0068515					X				X				
11	SB41_0.8-1.0	May 25, 2023		Soil	M23-My0068516					X				X				
12	SB42_0.2-0.4	May 25, 2023		Soil	M23-My0068517					X				X				

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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
13	SB43_0.4-0.6	May 25, 2023		Soil	M23-My0068518					X				X				
14	SB44_0.7-1.0	May 25, 2023		Soil	M23-My0068519									X	X			
15	SB45_0.5-0.7	May 25, 2023		Soil	M23-My0068520									X	X			
16	SB46_0.0-0.2	May 25, 2023		Soil	M23-My0068521					X				X				
17	SB46_0.8-1.0	May 25, 2023		Soil	M23-My0068522					X				X				
18	SB47_0.0-0.2	May 25, 2023		Soil	M23-My0068523					X				X				
19	SB47_0.3-0.5	May 25, 2023		Soil	M23-My0068524	X		X	X		X	X		X	X			X
20	SB48_0.0-0.2	May 25, 2023		Soil	M23-My0068525					X				X				
21	SB49_0.0-0.2	May 25, 2023		Soil	M23-My0068526					X				X				
22	SB49_0.2-0.3	May 25, 2023		Soil	M23-My0068527									X	X			
23	SB51_0.0-0.2	May 25, 2023		Soil	M23-My0068528								X	X			X	
24	SB51_0.2-0.4	May 25, 2023		Soil	M23-My0068529	X		X	X		X	X		X	X			X
25	SB52_0.0-0.2	May 25, 2023		Soil	M23-My0068530	X		X	X		X	X	X	X	X		X	X
26	RB03	May 25, 2023		Water	M23-My0068531											X	X	
27	DUP05	May 25, 2023		Soil	M23-My0068532									X	X			

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Project ID: 64648

Order No.:
Report #: 993441
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
28	DUP06	May 25, 2023		Soil	M23-My0068533									X			X	
29	SB08_0.3-0.5	May 25, 2023		Soil	M23-My0068534		X											
30	SB10_0.0-0.2	May 25, 2023		Soil	M23-My0068535		X											
31	SB10_0.8-1.0	May 25, 2023		Soil	M23-My0068536		X											
32	SB11_0.6-0.8	May 25, 2023		Soil	M23-My0068537		X											
33	SB11_0.8-1.0	May 25, 2023		Soil	M23-My0068538		X											
34	SB36_0.2-0.4	May 25, 2023		Soil	M23-My0068539		X											
35	SB38_0.8-1.0	May 25, 2023		Soil	M23-My0068540		X											
36	SB41_0.4-0.6	May 25, 2023		Soil	M23-My0068541		X											
37	SB42_0.0-0.2	May 25, 2023		Soil	M23-My0068542		X											
38	SB42_0.8-1.0	May 25, 2023		Soil	M23-My0068543		X											
39	SB43_0.0-0.2	May 25, 2023		Soil	M23-My0068544		X											
40	SB43_0.8-1.0	May 25, 2023		Soil	M23-My0068545		X											
41	SB44_0.0-0.2	May 25, 2023		Soil	M23-My0068546		X											
42	SB44_0.2-0.4	May 25, 2023		Soil	M23-My0068547		X											

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Received: May 25, 2023 3:14 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X					
43	SB45_0.0-0.2	May 25, 2023		Soil	M23-My0068548		X											
44	SB45_0.8-1.0	May 25, 2023		Soil	M23-My0068549		X											
45	SB46_0.4-0.6	May 25, 2023		Soil	M23-My0068550		X											
46	SB47_0.8-1.0	May 25, 2023		Soil	M23-My0068551		X											
47	SB48_0.4-0.6	May 25, 2023		Soil	M23-My0068552		X											
48	SB48_0.8-1.0	May 25, 2023		Soil	M23-My0068553		X											
49	SB49_0.5-0.7	May 25, 2023		Soil	M23-My0068554		X											
50	SB49_0.8-1.0	May 25, 2023		Soil	M23-My0068555		X											
51	SB51_0.8-1.0	May 25, 2023		Soil	M23-My0068556		X											
52	SB52_0.3-0.5	May 25, 2023		Soil	M23-My0068557		X											
53	SB52_0.8-1.0	May 25, 2023		Soil	M23-My0068558		X											
Test Counts						4	25	4	4	12	4	4	3	27	12	1	5	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	98			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	97			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	76			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	80			70-130	Pass	
m&p-Xylenes	%	82			70-130	Pass	
Xylenes - Total*	%	82			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			80-120	Pass	
Cadmium	%	102			80-120	Pass	
Chromium	%	96			80-120	Pass	
Copper	%	97			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	87			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	99			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	108			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	97			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	102			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	108			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	100			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotridecanoic acid (PFTrDA)	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	94			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	102			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	107			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	109			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	96			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	83			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	93			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0069650	NCP	%	99			70-130	Pass	
TRH C10-C14	N23-My0063626	NCP	%	107			70-130	Pass	
TRH C6-C10	M23-My0069650	NCP	%	99			70-130	Pass	
TRH >C10-C16	N23-My0063626	NCP	%	107			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0069650	NCP	%	85			70-130	Pass	
Toluene	M23-My0069650	NCP	%	83			70-130	Pass	
Ethylbenzene	M23-My0069650	NCP	%	89			70-130	Pass	
m&p-Xylenes	M23-My0069650	NCP	%	89			70-130	Pass	
o-Xylene	M23-My0069650	NCP	%	89			70-130	Pass	
Xylenes - Total*	M23-My0069650	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0069650	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0065644	NCP	%	102			75-125	Pass	
Cadmium	M23-My0065644	NCP	%	105			75-125	Pass	
Chromium	M23-My0065644	NCP	%	98			75-125	Pass	
Copper	M23-My0065644	NCP	%	99			75-125	Pass	
Lead	M23-My0065644	NCP	%	107			75-125	Pass	
Mercury	M23-My0065644	NCP	%	92			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	M23-My0065644	NCP	%	99			75-125	Pass	
Zinc	M23-My0065644	NCP	%	106			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-My0061513	NCP	%	121			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0061513	NCP	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0061513	NCP	%	111			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0061513	NCP	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0061513	NCP	%	113			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-My0061513	NCP	%	120			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0061513	NCP	%	123			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0061513	NCP	%	124			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0061513	NCP	%	116			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0061513	NCP	%	95			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0061513	NCP	%	111			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-My0061513	NCP	%	118			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0061513	NCP	%	130			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0061513	NCP	%	134			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0061513	NCP	%	126			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0061513	NCP	%	129			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0061513	NCP	%	129			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0061513	NCP	%	123			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-My0061513	NCP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0061513	NCP	%	114			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0061513	NCP	%	99			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0061513	NCP	%	94			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0061513	NCP	%	108			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0061513	NCP	%	114			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0061513	NCP	%	111			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0061513	NCP	%	106			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0061513	NCP	%	118			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0061513	NCP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0061513	NCP	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0061513	NCP	%	111			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0065878	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M23-My0061683	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M23-My0061683	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M23-My0061683	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M23-My0065878	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M23-My0061683	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M23-My0061683	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M23-My0061683	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0065878	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M23-My0065878	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M23-My0065878	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M23-My0065878	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M23-My0065878	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M23-My0065878	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0065878	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0065644	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M23-My0065644	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M23-My0065644	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M23-My0065644	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M23-My0065644	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M23-My0065644	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M23-My0065644	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M23-My0065644	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0061512	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0061512	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Catherine Wilson	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S3	SAMPLERS: AB/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		
NAME: Kate Lough	DATE: 26/5/23	NAME:	DATE:	METHOD OF SHIPMENT: Overnight
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF:	TIME:	CONSIGNMENT NOTE NO.
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

FOR LAB USE ONLY

COOLER SEAL

Yes ...... No ......

Broken ...... Intact ....

COOLER TEMP: deg.C

***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES

****Please send SPLIT07 and SPLIT08 to Envirolab for analysis with copy of this COC**

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins
SB30_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB30_0.2-0.4	Soil	25/05/2023		Soil Jar	1	-		X											
SB30_0.5-0.6	Soil	25/05/2023		Soil Jar	1	-					X		X	X			X		
SB30_0.7-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB31_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB31_0.2-0.5	Soil	25/05/2023		Soil Jar	1	-							X						
SB33_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-		X											
SB33_0.2-0.4	Soil	25/05/2023		Soil Jar	1	-		X											
SB33_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB34_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-		X							X			X	X
SB34_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-							X						
SB34_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB59_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-		X											
SB59_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-													
SB59_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB60_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-					X		X						
SB60_0.6-0.7	Soil	25/05/2023		Soil Jar	1	-							X	X	X		X		
SB60_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB61_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-		X											
SB61_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-													
SB61_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB62_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB62_0.6-0.8	Soil	25/05/2023		Soil Jar	1	-					X		X	X		X	X		
SB63_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB63_0.5-0.6	Soil	25/05/2023		Soil Jar	1	-		X										X	X
SB63_0.6-0.8	Soil	25/05/2023		Soil Jar	1	-													
SB63_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-							X						
SB64_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-		X											
SB64_0.5-0.7	Soil	25/05/2023		Soil Jar	1	-													
SB64_0.7-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB168_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB168_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-		X			X			X					
SB168_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-													
SB169_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-													
SB169_0.4-0.6	Soil	25/05/2023		Soil Jar	1	-							X						

#993964
29/5/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S3	SAMPLERS: AB/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Kate Lough	DATE: 26/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and Invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB169_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-									X			X	X				
SB170_0.5-0.7	Soil	25/05/2023		Soil Jar	1	-		X															
SB170_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
DUP07	Soil	25/05/2023		Soil Jar	1	-		X															
SPLIT07	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP08	Soil	25/05/2023		Soil Jar	1	-		X															
SPLIT08	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB04	Water	25/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X																
						TOTAL	1	14	0	0	4	0	8	4	3	1	3	3	3	0	0	0	

#9GB9464
29/5/23

3

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S3	SAMPLERS: AB/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Kate Lough	DATE: 26/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB169_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-									X			X	X				
SB170_0.5-0.7	Soil	25/05/2023		Soil Jar	1	-		X															
SB170_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
DUP07	Soil	25/05/2023		Soil Jar	1	-		X															
SPLIT07	Soil	25/05/2023		Soil Jar	1	-		X															
DUP08	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT08	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB04	Water	25/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X																
				TOTAL			1	14	0	0	4	0	8	4	3	1	3	3	3	0	0	0	

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES

#993964
29/5/23

1

Tyrone Gowans

From: Amy Meunier
Sent: Monday, 29 May 2023 12:13 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected in the field last Thurs (25/5) and sent to Melb on Fri last week (JBS&G job 64648)
Attachments: COC_64648S3_Eurofins.xlsx

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Tyrone – COC attached for JBSG samples arrived on Saturday.

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 29 May 2023 11:58 AM
To: Amy Meunier <AmyMeunier@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected in the field last Thurs (25/5) and sent to Melb on Fri last week (JBS&G job 64648)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Parimal and Amy,

Please find attached completed COC for soil samples collected last Thurs (25/5) and sent to Melb last Fri. Please note the following:

- SPLIT07 and SPLIT08 are to be sent to Envirolab for analysis (with copy of the COC please)

Thanks,
Kate

4993964
29/5/23

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

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PROJECT INFORMATION

Date Received: 25/5/23

Company: JBS&G

Contact person: Kate Lough

Contact Number: 0433 683 378

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne Expansion soils

Project Number: 64648

COC: Attached ☐ on IB.
E-mailed ☐
Not received ☑

#993964
29/5/23

Delivered 15:30, KL To email COC tomorrow.
It esky, NO SPOCAS (this time)

OFFICIAL

Tyrone Gowans

From: Kate Lough <klough@jbsg.com.au>
Sent: Tuesday, 30 May 2023 8:46 AM
To: #AU_CAU001_EnviroSampleVic
Cc: S&G Labresults
Subject: RE: Eurofins Sample Receipt Advice - Report 993964 : Site URPS OSBORNE (64648)

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Amy,

Thanks for sending this through – can sample SB62_0.8-1.0 please be analysed in place of SB62_0.6-0.8 (for same analytical suite as was requested for SB62_0.6-0.8)?

Please let me know if any issues.

Thanks,
Kate

From: EnviroSampleVIC@eurofins.com <EnviroSampleVIC@eurofins.com>
Sent: Monday, May 29, 2023 8:39 PM
To: Kate Lough <klough@jbsg.com.au>
Cc: S&G Labresults <labresults@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 993964 : Site URPS OSBORNE (64648)

Dear Valued Client,

Missing:
SB62_0.6-0.8

Extra:
SB62_0.3-0.5
SB62_0.8-1.0

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins | mgt Analytical Services Manager as soon as possible to make certain that they get changed.

Regards

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Tel: +64 9 526 4551
IANZ# 1327

Christchurch
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Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS OSBORNE
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	May 29, 2023 12:13 PM
Eurofins reference	993964

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Missing:
SB62_0.6-0.8

Extra:
SB62_0.3-0.5

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **993964-S**
Project name URPS OSBORNE
Project ID 64648
Received Date May 29, 2023

Client Sample ID			**SB30_0.2-0.4**	**SB30_0.5-0.6**	**SB31_0.2-0.5**	**SB33_0.0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-My0073232**	**M23-My0073233**	**M23-My0073234**	**M23-My0073235**
Date Sampled			**May 25, 2023**	**May 25, 2023**	**May 25, 2023**	**May 25, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.0	4.1	4.1	4.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	46	13	12	13
Copper	5	mg/kg	20	16	20	38
Lead	5	mg/kg	10	27	6.0	32
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	10	7.0	8.2
Zinc	5	mg/kg	30	39	23	45
Sample Properties						
% Moisture	1	%	14	11	5.2	15
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	69	89	-

eurofins | Environment Testing

Client Sample ID			SB30_0.2-0.4	SB30_0.5-0.6	SB31_0.2-0.5	SB33_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073232	M23-My0073233	M23-My0073234	M23-My0073235
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			SB30_0.2-0.4	SB30_0.5-0.6	SB31_0.2-0.5	SB33_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073232	M23-My0073233	M23-My0073234	M23-My0073235
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	69	-	-
Toluene-d8 (surr.)	1	%	-	84	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	55	60	-
p-Terphenyl-d14 (surr.)	1	%	-	80	77	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	88	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	58	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	7.2	-	-

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Client Sample ID			SB33_0.2-0.4	SB34_0.0-0.2	SB34_0.3-0.5	SB59_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073236	M23-My0073237	M23-My0073238	M23-My0073239
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.4	5.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.5	7.7	15
Copper	5	mg/kg	< 5	< 5	< 5	10
Lead	5	mg/kg	< 5	< 5	< 5	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	7.6
Zinc	5	mg/kg	< 5	11	9.6	26
Sample Properties						
% Moisture	1	%	7.2	12	16	12
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	54	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB33_0.2-0.4	SB34_0.0-0.2	SB34_0.3-0.5	SB59_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073236	M23-My0073237	M23-My0073238	M23-My0073239
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	61	-
p-Terphenyl-d14 (surr.)	1	%	-	-	70	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	130	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	60	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-

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Client Sample ID			SB33_0.2-0.4	SB34_0.0-0.2	SB34_0.3-0.5	SB59_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073236	M23-My0073237	M23-My0073238	M23-My0073239
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	69	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	101	-	-

Client Sample ID			SB60_0.0-0.2	SB60_0.6-0.7	SB61_0.0-0.2	SB62_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073240	M23-My0073241	M23-My0073242	M23-My0073243
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.7	5.2	4.0	4.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	14	11	12
Copper	5	mg/kg	13	11	8.2	9.3
Lead	5	mg/kg	20	27	16	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

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Client Sample ID			SB60_0.0-0.2	SB60_0.6-0.7	SB61_0.0-0.2	SB62_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073240	M23-My0073241	M23-My0073242	M23-My0073243
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	9.5	7.8	5.6	6.4
Zinc	5	mg/kg	39	36	23	23
Sample Properties						
% Moisture	1	%	11	12	11	11
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	131	-	59
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1

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Client Sample ID			SB60_0.0-0.2	SB60_0.6-0.7	SB61_0.0-0.2	SB62_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073240	M23-My0073241	M23-My0073242	M23-My0073243
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	131	-	59
Toluene-d8 (surr.)	1	%	-	131	-	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

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Client Sample ID			SB60_0.0-0.2	SB60_0.6-0.7	SB61_0.0-0.2	SB62_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073240	M23-My0073241	M23-My0073242	M23-My0073243
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	62	-	100
p-Terphenyl-d14 (surr.)	1	%	81	92	-	84
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	55	-	112
Tetrachloro-m-xylene (surr.)	1	%	-	60	-	84
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.1	-	-	7.6
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05

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Client Sample ID			SB60_0.0-0.2	SB60_0.6-0.7	SB61_0.0-0.2	SB62_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073240	M23-My0073241	M23-My0073242	M23-My0073243
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	55	-	112
Tetrachloro-m-xylene (surr.)	1	%	-	60	-	84
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	80	-	-

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Client Sample ID			SB63_0.5-0.6	SB63_0.8-1.0	SB64_0.0-0.2	SB168_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073244	M23-My0073245	M23-My0073246	M23-My0073247
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.7	4.3	3.6	3.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	26	11	22
Copper	5	mg/kg	5.3	14	7.9	11
Lead	5	mg/kg	7.8	8.6	12	7.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	12	5.3	9.3
Zinc	5	mg/kg	13	25	21	18
Sample Properties						
% Moisture	1	%	10	15	11	14
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	84	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB63_0.5-0.6	SB63_0.8-1.0	SB64_0.0-0.2	SB168_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073244	M23-My0073245	M23-My0073246	M23-My0073247
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	67
Toluene-d8 (surr.)	1	%	-	-	-	78
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB63_0.5-0.6	SB63_0.8-1.0	SB64_0.0-0.2	SB168_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073244	M23-My0073245	M23-My0073246	M23-My0073247
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	61	-	-
p-Terphenyl-d14 (surr.)	1	%	-	67	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.3
Cyanide (total)	5	mg/kg	< 5	-	-	-
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-	-
Dibutyltin	1	mg/kg	< 1	-	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tripropyltin as Sn (surr.)	1	%	101	-	-	-

Client Sample ID			SB169_0.4-0.6	SB170_0.3-0.5	SB170_0.5-0.7	DUP07_
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073248	M23-My0073249	M23-My0073250	M23-My0073251
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.8	-	15	4.2
Cadmium	0.4	mg/kg	< 0.4	-	0.6	< 0.4
Chromium	5	mg/kg	50	-	50	10
Copper	5	mg/kg	29	-	38	47
Lead	5	mg/kg	21	-	46	33
Mercury	0.1	mg/kg	< 0.1	-	0.3	< 0.1
Nickel	5	mg/kg	21	-	23	6.4
Zinc	5	mg/kg	39	-	98	41
Sample Properties						
% Moisture	1	%	26	29	53	13

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Client Sample ID			SB169_0.4-0.6	SB170_0.3-0.5	SB170_0.5-0.7	DUP07_
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073248	M23-My0073249	M23-My0073250	M23-My0073251
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	91	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	61	-	-	-
p-Terphenyl-d14 (surr.)	1	%	112	-	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-

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Client Sample ID			SB169_0.4-0.6	SB170_0.3-0.5	SB170_0.5-0.7	DUP07_
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073248	M23-My0073249	M23-My0073250	M23-My0073251
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	93	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	65	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-

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Client Sample ID			SB169_0.4-0.6	SB170_0.3-0.5	SB170_0.5-0.7	DUP07_
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0073248	M23-My0073249	M23-My0073250	M23-My0073251
Date Sampled			May 25, 2023	May 25, 2023	May 25, 2023	May 25, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	60	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	102	-	-

Client Sample ID			DUP08_
Sample Matrix			Soil
Eurofins Sample No.			M23-My0073252
Date Sampled			May 25, 2023
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	4.1
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	12
Copper	5	mg/kg	9.3
Lead	5	mg/kg	19
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	6.5
Zinc	5	mg/kg	27
Sample Properties			
% Moisture	1	%	13

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	May 31, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
% Moisture	Melbourne	May 30, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Volatile Organics	Melbourne	May 31, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	May 31, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	May 31, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (total)	Melbourne	May 31, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Organotins	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 993964
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	SB30_0.2-0.4	May 25, 2023		Soil	M23-My0073232						X			X			
2	SB30_0.5-0.6	May 25, 2023		Soil	M23-My0073233			X		X			X	X	X		
3	SB31_0.2-0.5	May 25, 2023		Soil	M23-My0073234									X	X		
4	SB33_0.0-0.2	May 25, 2023		Soil	M23-My0073235						X			X			
5	SB33_0.2-0.4	May 25, 2023		Soil	M23-My0073236						X			X			
6	SB34_0.0-0.2	May 25, 2023		Soil	M23-My0073237	X					X	X		X			X
7	SB34_0.3-0.5	May 25, 2023		Soil	M23-My0073238									X	X		
8	SB59_0.0-0.2	May 25, 2023		Soil	M23-My0073239						X			X			
9	SB60_0.0-0.2	May 25, 2023		Soil	M23-My0073240			X						X	X		
10	SB60_0.6-0.7	May 25, 2023		Soil	M23-My0073241					X		X	X	X	X		
11	SB61_0.0-0.2	May 25, 2023		Soil	M23-My0073242						X			X			
12	SB62_0.8-1.0	May 25, 2023		Soil	M23-My0073243			X	X	X			X	X	X		
13	SB63_0.5-0.6	May 25, 2023		Soil	M23-My0073244	X					X			X			X

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Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 993964
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
14	SB63_0.8-1.0	May 25, 2023		Soil	M23-My0073245									X	X		
15	SB64_0.0-0.2	May 25, 2023		Soil	M23-My0073246						X			X			
16	SB168_0.3-0.5	May 25, 2023		Soil	M23-My0073247			X			X		X	X			
17	SB169_0.4-0.6	May 25, 2023		Soil	M23-My0073248									X	X		
18	SB170_0.3-0.5	May 25, 2023		Soil	M23-My0073249	X						X		X			X
19	SB170_0.5-0.7	May 25, 2023		Soil	M23-My0073250						X			X			
20	DUP07_	May 25, 2023		Soil	M23-My0073251						X			X			
21	DUP08_	May 25, 2023		Soil	M23-My0073252						X			X			
22	RB04_	May 25, 2023		Water	M23-My0073253											X	
23	SB30_0.0-0.2	May 25, 2023		Soil	M23-My0073254		X										
24	SB30_0.7-1.0	May 25, 2023		Soil	M23-My0073255		X										
25	SB31_0.0-0.2	May 25, 2023		Soil	M23-My0073256		X										
26	SB33_0.8-1.0	May 25, 2023		Soil	M23-My0073257		X										
27	SB34_0.8-1.0	May 25, 2023		Soil	M23-My0073258		X										
28	SB59_0.3-0.5	May 25, 2023		Soil	M23-My0073259		X										
29	SB59_0.8-1.0	May 25, 2023		Soil	M23-My0073260		X										

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Phone: 08 8431 7113
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Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
30	SB60_0.8-1.0	May 25, 2023		Soil	M23-My0073261		X										
31	SB61_0.3-0.5	May 25, 2023		Soil	M23-My0073262		X										
32	SB61_0.8-1.0	May 25, 2023		Soil	M23-My0073263		X										
33	SB62_0.0-0.2	May 25, 2023		Soil	M23-My0073264		X										
34	SB63_0.0-0.2	May 25, 2023		Soil	M23-My0073265		X										
35	SB63_0.6-0.8	May 25, 2023		Soil	M23-My0073266		X										
36	SB64_0.5-0.7	May 25, 2023		Soil	M23-My0073267		X										
37	SB64_0.7-1.0	May 25, 2023		Soil	M23-My0073268		X										
38	SB168_0.0-0.2	May 25, 2023		Soil	M23-My0073269		X										
39	SB168_0.8-1.0	May 25, 2023		Soil	M23-My0073270		X										
40	SB169_0.0-0.2	May 25, 2023		Soil	M23-My0073271		X										
41	SB169_0.8-1.0	May 25, 2023		Soil	M23-My0073272		X										
42	SB170_0.0-0.2	May 25, 2023		Soil	M23-My0073273		X										
43	SB170_0.8-1.0	May 25, 2023		Soil	M23-My0073274		X										
44	SB62_0.3-0.5	May 25, 2023		Soil	M23-My0073275		X										
Test Counts						3	22	4	1	3	12	3	4	21	8	1	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	114			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	115			80-120	Pass	
Copper	%	114			80-120	Pass	
Lead	%	116			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	113			80-120	Pass	
Zinc	%	114			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	77			70-130	Pass	
TRH C10-C14	%	96			70-130	Pass	
TRH C6-C10	%	107			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	105			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	78			70-130	Pass	
Xylenes - Total*	%	87			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	78			70-130	Pass	
1.1.1-Trichloroethane	%	87			70-130	Pass	
1.2-Dichlorobenzene	%	97			70-130	Pass	
1.2-Dichloroethane	%	75			70-130	Pass	
Trichloroethene	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	84			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	87			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	%	93			70-130	Pass	
Anthracene	%	107			70-130	Pass	
Benz(a)anthracene	%	126			70-130	Pass	
Benzo(a)pyrene	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	%	73			70-130	Pass	
Benzo(g.h.i)perylene	%	101			70-130	Pass	
Benzo(k)fluoranthene	%	112			70-130	Pass	
Chrysene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	110			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	87			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	96			70-130	Pass	
LCS - % Recovery							
Cyanide (total)	%	126			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	79			70-130	Pass	
4.4'-DDD	%	86			70-130	Pass	
4.4'-DDE	%	110			70-130	Pass	
4.4'-DDT	%	99			70-130	Pass	
a-HCH	%	79			70-130	Pass	
Aldrin	%	77			70-130	Pass	
b-HCH	%	87			70-130	Pass	
d-HCH	%	78			70-130	Pass	
Dieldrin	%	111			70-130	Pass	
Endosulfan I	%	83			70-130	Pass	
Endosulfan II	%	88			70-130	Pass	
Endosulfan sulphate	%	70			70-130	Pass	
Endrin	%	73			70-130	Pass	
Endrin aldehyde	%	73			70-130	Pass	
Endrin ketone	%	79			70-130	Pass	
g-HCH (Lindane)	%	72			70-130	Pass	
Heptachlor	%	77			70-130	Pass	
Heptachlor epoxide	%	71			70-130	Pass	
Hexachlorobenzene	%	83			70-130	Pass	
Methoxychlor	%	105			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	113			70-130	Pass	
Dimethoate	%	90			70-130	Pass	
Ethion	%	83			70-130	Pass	
Fenitrothion	%	100			70-130	Pass	
Methyl parathion	%	77			70-130	Pass	
Mevinphos	%	85			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	80			60-140	Pass	
Dibutyltin as Sn	%	108			60-140	Pass	
Monobutyltin as Sn	%	111			60-140	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0067249	NCP	%	107			75-125	Pass	
Cadmium	M23-My0067249	NCP	%	106			75-125	Pass	
Chromium	M23-My0067249	NCP	%	118			75-125	Pass	
Copper	M23-My0067249	NCP	%	112			75-125	Pass	
Lead	M23-My0067249	NCP	%	96			75-125	Pass	
Mercury	M23-My0067249	NCP	%	108			75-125	Pass	
Nickel	M23-My0067249	NCP	%	111			75-125	Pass	
Zinc	M23-My0067249	NCP	%	107			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-My0078492	NCP	%	90			70-130	Pass	
TRH >C10-C16	M23-My0078492	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Jn0002402	NCP	%	105			70-130	Pass	
1.1.1-Trichloroethane	M23-My0080034	NCP	%	86			70-130	Pass	
1.2-Dichlorobenzene	M23-My0080034	NCP	%	102			70-130	Pass	
1.2-Dichloroethane	M23-My0080034	NCP	%	87			70-130	Pass	
Trichloroethene	M23-My0080034	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Anthracene	L23-My0062732	NCP	%	119			70-130	Pass	
Benz(a)anthracene	L23-My0062732	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M23-My0078237	NCP	%	81			70-130	Pass	
Aroclor-1260	M23-My0078237	NCP	%	78			70-130	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M23-My0073229	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-My0079042	NCP	%	92			70-130	Pass	
4.4'-DDD	M23-My0079042	NCP	%	123			70-130	Pass	
4.4'-DDE	M23-My0079042	NCP	%	117			70-130	Pass	
4.4'-DDT	M23-My0079042	NCP	%	102			70-130	Pass	
a-HCH	M23-My0079042	NCP	%	108			70-130	Pass	
Aldrin	M23-My0079042	NCP	%	105			70-130	Pass	
b-HCH	M23-My0079042	NCP	%	115			70-130	Pass	
d-HCH	M23-My0079042	NCP	%	87			70-130	Pass	
Dieldrin	M23-My0079042	NCP	%	125			70-130	Pass	
Endosulfan I	M23-My0079042	NCP	%	121			70-130	Pass	
Endosulfan II	M23-My0079042	NCP	%	125			70-130	Pass	
Endosulfan sulphate	M23-My0079042	NCP	%	75			70-130	Pass	
Endrin	M23-My0079042	NCP	%	122			70-130	Pass	
Endrin aldehyde	M23-My0079042	NCP	%	103			70-130	Pass	
Endrin ketone	M23-My0079042	NCP	%	91			70-130	Pass	
g-HCH (Lindane)	M23-My0079042	NCP	%	101			70-130	Pass	
Heptachlor	M23-My0079042	NCP	%	99			70-130	Pass	
Heptachlor epoxide	M23-My0079042	NCP	%	87			70-130	Pass	
Hexachlorobenzene	M23-My0079042	NCP	%	103			70-130	Pass	
Methoxychlor	M23-My0079042	NCP	%	90			70-130	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M23-Jn0004072	NCP	%	88			70-130	Pass	
Ethion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Fenitrothion	M23-Jn0004072	NCP	%	72			70-130	Pass	
Methyl parathion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M23-My0075913	NCP	%	76			60-140	Pass	
Dibutyltin as Sn	M23-My0075913	NCP	%	112			60-140	Pass	
Monobutyltin as Sn	M23-My0075913	NCP	%	94			60-140	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-My0073238	CP	%	71			70-130	Pass	
Acenaphthylene	M23-My0073238	CP	%	79			70-130	Pass	
Benzo(a)pyrene	M23-My0073238	CP	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	M23-My0073238	CP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	M23-My0073238	CP	%	78			70-130	Pass	
Benzo(k)fluoranthene	M23-My0073238	CP	%	110			70-130	Pass	
Chrysene	M23-My0073238	CP	%	90			70-130	Pass	
Dibenz(a.h)anthracene	M23-My0073238	CP	%	95			70-130	Pass	
Fluoranthene	M23-My0073238	CP	%	78			70-130	Pass	
Fluorene	M23-My0073238	CP	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0073238	CP	%	75			70-130	Pass	
Naphthalene	M23-My0073238	CP	%	71			70-130	Pass	
Phenanthrene	M23-My0073238	CP	%	82			70-130	Pass	
Pyrene	M23-My0073238	CP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0073240	CP	%	94			70-130	Pass	
TRH C6-C10	M23-My0073240	CP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0073240	CP	%	84			70-130	Pass	
Toluene	M23-My0073240	CP	%	80			70-130	Pass	
Ethylbenzene	M23-My0073240	CP	%	80			70-130	Pass	
m&p-Xylenes	M23-My0073240	CP	%	83			70-130	Pass	
o-Xylene	M23-My0073240	CP	%	83			70-130	Pass	
Xylenes - Total*	M23-My0073240	CP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0073240	CP	%	94			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0073232	CP	%	14	15	4.8	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0073540	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-My0073540	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

eurofins | Environment Testing

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0073540	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0073540	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0073540	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0073540	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0073540	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0073540	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0073540	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-My0073234	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0073234	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0073234	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-My0073234	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0073234	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0073234	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0073234	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-My0073456	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
g-HCH (Lindane)	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-My0073456	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-My0073456	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-My0073456	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-My0073456	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-My0073456	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-My0073456	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M23-Jn0002418	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M23-Jn0002418	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M23-Jn0002418	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M23-Jn0002418	NCP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M23-Jn0002418	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0073240	CP	mg/kg	6.7	6.7	<1	30%	Pass	
Cadmium	M23-My0073240	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0073240	CP	mg/kg	16	16	1.8	30%	Pass	
Copper	M23-My0073240	CP	mg/kg	13	13	<1	30%	Pass	
Lead	M23-My0073240	CP	mg/kg	20	20	1.2	30%	Pass	
Mercury	M23-My0073240	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0073240	CP	mg/kg	9.5	9.5	<1	30%	Pass	
Zinc	M23-My0073240	CP	mg/kg	39	38	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0073242	CP	%	11	12	2.4	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-My0073247	CP	pH Units	8.3	8.5	pass	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Amy Meunier	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **993964-W**
Project name URPS OSBORNE
Project ID 64648
Received Date May 29, 2023

Client Sample ID			**RB04_**
Sample Matrix			**Water**
Eurofins Sample No.			**M23-My0073253**
Date Sampled			**May 25, 2023**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	104
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 29, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 29, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 29, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 993964
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	SB30_0.2-0.4	May 25, 2023		Soil	M23-My0073232						X			X			
2	SB30_0.5-0.6	May 25, 2023		Soil	M23-My0073233			X		X			X	X	X		
3	SB31_0.2-0.5	May 25, 2023		Soil	M23-My0073234									X	X		
4	SB33_0.0-0.2	May 25, 2023		Soil	M23-My0073235						X			X			
5	SB33_0.2-0.4	May 25, 2023		Soil	M23-My0073236						X			X			
6	SB34_0.0-0.2	May 25, 2023		Soil	M23-My0073237	X					X	X		X			X
7	SB34_0.3-0.5	May 25, 2023		Soil	M23-My0073238									X	X		
8	SB59_0.0-0.2	May 25, 2023		Soil	M23-My0073239						X			X			
9	SB60_0.0-0.2	May 25, 2023		Soil	M23-My0073240			X						X	X		
10	SB60_0.6-0.7	May 25, 2023		Soil	M23-My0073241					X		X	X	X	X		
11	SB61_0.0-0.2	May 25, 2023		Soil	M23-My0073242						X			X			
12	SB62_0.8-1.0	May 25, 2023		Soil	M23-My0073243			X	X	X			X	X	X		
13	SB63_0.5-0.6	May 25, 2023		Soil	M23-My0073244	X					X			X			X

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 993964
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
14	SB63_0.8-1.0	May 25, 2023		Soil	M23-My0073245									X	X		
15	SB64_0.0-0.2	May 25, 2023		Soil	M23-My0073246						X			X			
16	SB168_0.3-0.5	May 25, 2023		Soil	M23-My0073247			X			X		X	X			
17	SB169_0.4-0.6	May 25, 2023		Soil	M23-My0073248									X	X		
18	SB170_0.3-0.5	May 25, 2023		Soil	M23-My0073249	X						X		X			X
19	SB170_0.5-0.7	May 25, 2023		Soil	M23-My0073250						X			X			
20	DUP07_	May 25, 2023		Soil	M23-My0073251						X			X			
21	DUP08_	May 25, 2023		Soil	M23-My0073252						X			X			
22	RB04_	May 25, 2023		Water	M23-My0073253											X	
23	SB30_0.0-0.2	May 25, 2023		Soil	M23-My0073254		X										
24	SB30_0.7-1.0	May 25, 2023		Soil	M23-My0073255		X										
25	SB31_0.0-0.2	May 25, 2023		Soil	M23-My0073256		X										
26	SB33_0.8-1.0	May 25, 2023		Soil	M23-My0073257		X										
27	SB34_0.8-1.0	May 25, 2023		Soil	M23-My0073258		X										
28	SB59_0.3-0.5	May 25, 2023		Soil	M23-My0073259		X										
29	SB59_0.8-1.0	May 25, 2023		Soil	M23-My0073260		X										

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Phone: 08 8431 7113
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Received: May 29, 2023 12:13 PM
Due: Jun 1, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
30	SB60_0.8-1.0	May 25, 2023		Soil	M23-My0073261		X										
31	SB61_0.3-0.5	May 25, 2023		Soil	M23-My0073262		X										
32	SB61_0.8-1.0	May 25, 2023		Soil	M23-My0073263		X										
33	SB62_0.0-0.2	May 25, 2023		Soil	M23-My0073264		X										
34	SB63_0.0-0.2	May 25, 2023		Soil	M23-My0073265		X										
35	SB63_0.6-0.8	May 25, 2023		Soil	M23-My0073266		X										
36	SB64_0.5-0.7	May 25, 2023		Soil	M23-My0073267		X										
37	SB64_0.7-1.0	May 25, 2023		Soil	M23-My0073268		X										
38	SB168_0.0-0.2	May 25, 2023		Soil	M23-My0073269		X										
39	SB168_0.8-1.0	May 25, 2023		Soil	M23-My0073270		X										
40	SB169_0.0-0.2	May 25, 2023		Soil	M23-My0073271		X										
41	SB169_0.8-1.0	May 25, 2023		Soil	M23-My0073272		X										
42	SB170_0.0-0.2	May 25, 2023		Soil	M23-My0073273		X										
43	SB170_0.8-1.0	May 25, 2023		Soil	M23-My0073274		X										
44	SB62_0.3-0.5	May 25, 2023		Soil	M23-My0073275		X										
Test Counts						3	22	4	1	3	12	3	4	21	8	1	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
TRH C6-C10	%	85			70-130	Pass	
TRH >C10-C16	%	104			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	77			70-130	Pass	
Toluene	%	79			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	
m&p-Xylenes	%	81			70-130	Pass	
Xylenes - Total*	%	82			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	87			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Cadmium	%	91			80-120	Pass	
Chromium	%	92			80-120	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper			%	92			80-120	Pass	
Lead			%	97			80-120	Pass	
Mercury			%	87			80-120	Pass	
Nickel			%	92			80-120	Pass	
Zinc			%	92			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-My0076705	NCP	%	114			70-130	Pass	
TRH >C10-C16	M23-My0076705	NCP	%	111			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0076823	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M23-My0076704	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M23-My0076704	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M23-My0076704	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M23-My0076823	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M23-My0076704	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M23-My0076704	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M23-My0076704	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0076823	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M23-My0076823	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M23-My0076823	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M23-My0076823	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M23-My0076823	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M23-My0076823	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0076823	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

Amy Meunier	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S4	SAMPLERS: JA/AJ	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 26/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to: labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB54_0-0.2	Soil	26/05/2023	-	soil jar	1	-		X															****Please send SPLIT09 to Envirolab for analysis with copy of this COC**
SB54_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB54_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB55_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB55_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-												X	X				
SB55_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB56_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB56_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-												X	X				
SB56_0.6-0.8	Soil	26/05/2023	-	soil jar	1	-		X			X												
SB57_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SB57_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB57_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
SB58_0-0.2	Soil	26/05/2023	-	soil jar	1	-												X	X				
SB58_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB58_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-																	
SB58_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB65_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X		X		X										
SB65_0.4-0.6	Soil	26/05/2023	-	soil jar	1	-							X										
SB65_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-		X		X													
SB66_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB66_0.4-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB66_0.9-1.0	Soil	26/05/2023	-	soil jar	1	-		X								X							
SB67_0-0.2	Soil	26/05/2023	-	soil jar	1	-		X															
SB67_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB67_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB68_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X														
SB68_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB68_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-							X										
SB68_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
SB69_0-0.2	Soil	26/05/2023	-	soil jar	1	-		X										X	X				
SB69_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB69_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-																	
SB70_0-0.2	Soil	26/05/2023	-	soil jar	1	-							X										
SB70_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	

#494339

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S4	SAMPLERS: JA/AJ
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY / METHOD OF SHIPMENT: Overnight
NAME: Jack Ayers	DATE: 26/5/23	NAME: / DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: / TIME:
NAME:	DATE:	NAME: / DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: / TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB70_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB71_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.7-0.8	Soil	26/05/2023	-	soil jar	1	-							X										
SB71_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB72_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB72_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB72_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
SB88_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.4-0.7	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB89_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB89_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB89_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X			X			X							
SB93_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB94_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SB94_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB94_0.5-0.8	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB94_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
DUP09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SPLIT09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB05	Water	26/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X		X														
FB02	Water	26/05/2023	-						X														
						TOTAL	1	12	10	6	6	0	14	4	4	2	4	4	4	0	0	0	

#794339
26/5/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

7

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S4	SAMPLERS: JA/AJ	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 26/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB70_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB71_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.7-0.8	Soil	26/05/2023	-	soil jar	1	-							X										
SB71_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB72_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB72_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB72_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
SB88_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.4-0.7	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB89_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB89_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB89_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X			X			X							
SB93_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB94_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SB94_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB94_0.5-0.8	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB94_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
DUP09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SPLIT09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
RB05	Water	26/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X		X														PLEASE SEND TO ENVIROLAB FOR ANALYSIS
FB02	Water	26/05/2023	-						X														
						TOTAL	1	12	10	6	6	0	14	4	4	2	4	4	4	0	0	0	

#994335
27
30/5/23

1

Tyrone Gowans

From: Amy Meunier
Sent: Tuesday, 30 May 2023 9:02 AM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected in the field last Fri (26/5) and sent to Melb today (JBS&G job 64648)
Attachments: COC_64648S4_Eurofins.xlsx

Follow Up Flag: Follow up
Flag Status: Completed

Hi Tyrone,

COC attached

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 29 May 2023 8:19 PM
To: Amy Meunier <AmyMeunier@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected in the field last Fri (26/5) and sent to Melb today (JBS&G job 64648)

Hi Parimal and Amy,

Please find attached completed COC for soil samples collected last Fri (26/5) and sent to Melb today. Please note the following:

- Some samples are for SPOCAS analysis (short holding time)
- SPLIT09 is to be sent to Envirolab for analysis (with copy of the COC please)

#994339
30/5/23

Thanks,
Kate

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PROJECT INFORMATION

Date Received: 26/05/23

Company: JBS&G

Contact person: Kate. L

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 64648

COC: Attached ☐
E-mailed ☑
Not received ☐

- SPOCAS
Kept in freezer
as soon received.

8.3°C
+0.3°C
8.6°C
on ice.

#994339
30/5/23

OFFICIAL

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

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Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS OSBORNE
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	May 30, 2023 9:02 AM
Eurofins reference	994339

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **994339-S**
Project name URPS OSBORNE
Project ID 64648
Received Date May 30, 2023

Client Sample ID			**SB54_0-0.2**	**SB55_0.3-0.5**	**SB56_0.3-0.5**	**SB56_0.6-0.8**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-My0075911**	**M23-My0075912**	**M23-My0075913**	**M23-My0075914**
Date Sampled			**May 26, 2023**	**May 26, 2023**	**May 26, 2023**	**May 26, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.7	-	-	3.0
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	11	-	-	19
Copper	5	mg/kg	9.3	-	-	7.3
Lead	5	mg/kg	17	-	-	16
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	5.7	-	-	8.3
Zinc	5	mg/kg	25	-	-	21
Sample Properties						
% Moisture	1	%	12	10	9.8	13
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	< 1.25	-
Dibutyltin	1	mg/kg	-	< 1	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Monobutyltin	0.75	mg/kg	-	< 0.75	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	104	101	-
Cyanide (total)	5	mg/kg	-	< 5	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.4

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Client Sample ID			SB57_0-0.2	SB57_0.8-1.0	SB58_0-0.2	SB65_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075915	M23-My0075916	M23-My0075917	M23-My0075918
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.2	-	-	4.0
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	16	-	-	13
Copper	5	mg/kg	13	-	-	8.0
Lead	5	mg/kg	18	-	-	11
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	8.5	-	-	5.5
Zinc	5	mg/kg	31	-	-	19
Sample Properties						
% Moisture	1	%	13	13	14	11
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	101	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.5
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	55	-	-	64
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5

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Client Sample ID			SB57_0-0.2	SB57_0.8-1.0	SB58_0-0.2	SB65_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075915	M23-My0075916	M23-My0075917	M23-My0075918
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	65	-	-	61
p-Terphenyl-d14 (surr.)	1	%	56	-	-	55
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	28	-	-	60
13C5-PFPeA (surr.)	1	%	51	-	-	85
13C5-PFHxA (surr.)	1	%	53	-	-	102
13C4-PFHpA (surr.)	1	%	59	-	-	103
13C8-PFOA (surr.)	1	%	86	-	-	103
13C5-PFNA (surr.)	1	%	83	-	-	108
13C6-PFDA (surr.)	1	%	104	-	-	105
13C2-PFUnDA (surr.)	1	%	78	-	-	89
13C2-PFDoDA (surr.)	1	%	83	-	-	102
13C2-PFTeDA (surr.)	1	%	115	-	-	98

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Client Sample ID			SB57_0-0.2	SB57_0.8-1.0	SB58_0-0.2	SB65_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075915	M23-My0075916	M23-My0075917	M23-My0075918
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	96	-	-	75
D3-N-MeFOSA (surr.)	1	%	89	-	-	85
D5-N-EtFOSA (surr.)	1	%	96	-	-	92
D7-N-MeFOSE (surr.)	1	%	66	-	-	88
D9-N-EtFOSE (surr.)	1	%	79	-	-	83
D5-N-EtFOSAA (surr.)	1	%	61	-	-	102
D3-N-MeFOSAA (surr.)	1	%	58	-	-	102
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	78	-	-	108
18O2-PFHxS (surr.)	1	%	80	-	-	99
13C8-PFOS (surr.)	1	%	130	-	-	98
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	49	-	-	92
13C2-6:2 FTSA (surr.)	1	%	74	-	-	113
13C2-8:2 FTSA (surr.)	1	%	92	-	-	109
13C2-10:2 FTSA (surr.)	1	%	85	-	-	109
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

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Client Sample ID			SB57_0-0.2	SB57_0.8-1.0	SB58_0-0.2	SB65_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075915	M23-My0075916	M23-My0075917	M23-My0075918
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.7	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.6	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.13	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.19	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.060	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	37	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.44	-	-
Calcium - Peroxide	0.005	% Ca	-	10	-	-
Calcium - Acid Reacted	0.005	% Ca	-	9.6	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	7.7	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	4800	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.038	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.41	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.37	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.49	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	310	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	26	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	8.3	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	5200	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	120	-	-
>2mm Fraction	0.005	g	-	4.6	-	-
Analysed Material	0.1	%	-	96	-	-
Extraneous Material	0.1	%	-	3.8	-	-

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Client Sample ID			SB65_0.4-0.6	SB65_0.8-1.0	SB66_0.4-0.7	SB66_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075919	M23-My0075920	M23-My0075921	M23-My0075922
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.0	4.6	4.4	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	18	67	21
Copper	5	mg/kg	12	8.4	20	10
Lead	5	mg/kg	16	5.1	23	8.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	8.2	30	9.3
Zinc	5	mg/kg	24	13	35	18
Sample Properties						
% Moisture	1	%	13	12	11	12
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.8	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	71	-	69	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB65_0.4-0.6	SB65_0.8-1.0	SB66_0.4-0.7	SB66_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075919	M23-My0075920	M23-My0075921	M23-My0075922
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	73	-	64	-
p-Terphenyl-d14 (surr.)	1	%	77	-	65	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.3	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.6	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.065	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.11	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.044	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	27	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.26	-	-
Calcium - Peroxide	0.005	% Ca	-	4.1	-	-
Calcium - Acid Reacted	0.005	% Ca	-	3.8	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	3.0	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	1900	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.030	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.24	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.21	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.28	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	180	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	11	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	3.5	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	2200	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-

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Client Sample ID			SB65_0.4-0.6	SB65_0.8-1.0	SB66_0.4-0.7	SB66_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075919	M23-My0075920	M23-My0075921	M23-My0075922
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	120	-	-
>2mm Fraction	0.005	g	-	< 0.005	-	-
Analysed Material	0.1	%	-	100	-	-
Extraneous Material	0.1	%	-	< 0.1	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB65_0.4-0.6	SB65_0.8-1.0	SB66_0.4-0.7	SB66_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075919	M23-My0075920	M23-My0075921	M23-My0075922
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	69	-
Toluene-d8 (surr.)	1	%	-	-	75	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	141	101
Tetrachloro-m-xylene (surr.)	1	%	-	-	117	93

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Client Sample ID			SB65_0.4-0.6	SB65_0.8-1.0	SB66_0.4-0.7	SB66_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075919	M23-My0075920	M23-My0075921	M23-My0075922
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	110	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	141	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	117	-

eurofins | Environment Testing

Client Sample ID			SB67_0-0.2	SB67_0.7-1.0	SB68_0-0.2	SB68_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075923	M23-My0075924	M23-My0075925	M23-My0075926
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.3	5.2	-	6.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	14	27	-	15
Copper	5	mg/kg	33	15	-	37
Lead	5	mg/kg	12	12	-	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	17	12	-	9.8
Zinc	5	mg/kg	26	28	-	45
Sample Properties						
% Moisture	1	%	15	15	13	15
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	65
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB67_0-0.2	SB67_0.7-1.0	SB68_0-0.2	SB68_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075923	M23-My0075924	M23-My0075925	M23-My0075926
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	63
p-Terphenyl-d14 (surr.)	1	%	-	-	-	60
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	66	-
13C5-PFPeA (surr.)	1	%	-	-	89	-
13C5-PFHxA (surr.)	1	%	-	-	104	-
13C4-PFHpA (surr.)	1	%	-	-	103	-
13C8-PFOA (surr.)	1	%	-	-	103	-
13C5-PFNA (surr.)	1	%	-	-	108	-
13C6-PFDA (surr.)	1	%	-	-	105	-
13C2-PFUnDA (surr.)	1	%	-	-	88	-
13C2-PFDoDA (surr.)	1	%	-	-	102	-
13C2-PFTeDA (surr.)	1	%	-	-	99	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	76	-
D3-N-MeFOSA (surr.)	1	%	-	-	84	-
D5-N-EtFOSA (surr.)	1	%	-	-	88	-
D7-N-MeFOSE (surr.)	1	%	-	-	85	-
D9-N-EtFOSE (surr.)	1	%	-	-	83	-
D5-N-EtFOSAA (surr.)	1	%	-	-	104	-
D3-N-MeFOSAA (surr.)	1	%	-	-	105	-

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Client Sample ID			SB67_0-0.2	SB67_0.7-1.0	SB68_0-0.2	SB68_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075923	M23-My0075924	M23-My0075925	M23-My0075926
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	109	-
18O2-PFHxS (surr.)	1	%	-	-	100	-
13C8-PFOS (surr.)	1	%	-	-	95	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	97	-
13C2-6:2 FTSA (surr.)	1	%	-	-	110	-
13C2-8:2 FTSA (surr.)	1	%	-	-	116	-
13C2-10:2 FTSA (surr.)	1	%	-	-	114	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Client Sample ID			SB68_0.8-1.0	SB69_0-0.2	SB70_0-0.2	SB70_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075927	M23-My0075928	M23-My0075929	M23-My0075930
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	4.1	5.6	6.2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	14	17	35
Copper	5	mg/kg	-	9.9	13	18
Lead	5	mg/kg	-	11	16	27
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	6.8	8.8	32
Zinc	5	mg/kg	-	23	31	52
Sample Properties						
% Moisture	1	%	14	12	12	11

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Client Sample ID			SB68_0.8-1.0	SB69_0-0.2	SB70_0-0.2	SB70_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075927	M23-My0075928	M23-My0075929	M23-My0075930
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	101	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	78	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB68_0.8-1.0	SB69_0-0.2	SB70_0-0.2	SB70_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075927	M23-My0075928	M23-My0075929	M23-My0075930
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	70	-
p-Terphenyl-d14 (surr.)	1	%	-	-	60	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	9.0	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.21	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.29	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.078	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	49	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.72	-	-	-
Calcium - Peroxide	0.005	% Ca	8.4	-	-	-
Calcium - Acid Reacted	0.005	% Ca	7.7	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	6.1	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	3800	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.23	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.23	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.30	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	190	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	21	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	6.8	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	4300	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-

eurofins | Environment Testing

Client Sample ID			SB68_0.8-1.0	SB69_0-0.2	SB70_0-0.2	SB70_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075927	M23-My0075928	M23-My0075929	M23-My0075930
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	95	-	-	-
>2mm Fraction	0.005	g	13	-	-	-
Analysed Material	0.1	%	88	-	-	-
Extraneous Material	0.1	%	12	-	-	-

Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.6	< 2	7.9	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	6.6	15	6.4
Copper	5	mg/kg	17	12	13	7.7
Lead	5	mg/kg	19	5.2	14	8.6
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	< 5	9.4	< 5
Zinc	5	mg/kg	38	10	47	24
Sample Properties						
% Moisture	1	%	13	13	14	11
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.8
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1

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Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	-	-	145
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	69	-	-	62
p-Terphenyl-d14 (surr.)	1	%	77	-	-	68
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	51	-
13C5-PFPeA (surr.)	1	%	-	-	75	-
13C5-PFHxA (surr.)	1	%	-	-	93	-
13C4-PFHpA (surr.)	1	%	-	-	95	-
13C8-PFOA (surr.)	1	%	-	-	97	-
13C5-PFNA (surr.)	1	%	-	-	95	-
13C6-PFDA (surr.)	1	%	-	-	97	-
13C2-PFUnDA (surr.)	1	%	-	-	85	-
13C2-PFDoDA (surr.)	1	%	-	-	97	-
13C2-PFTeDA (surr.)	1	%	-	-	98	-

eurofins | Environment Testing

Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	74	-
D3-N-MeFOSA (surr.)	1	%	-	-	82	-
D5-N-EtFOSA (surr.)	1	%	-	-	89	-
D7-N-MeFOSE (surr.)	1	%	-	-	81	-
D9-N-EtFOSE (surr.)	1	%	-	-	79	-
D5-N-EtFOSAA (surr.)	1	%	-	-	87	-
D3-N-MeFOSAA (surr.)	1	%	-	-	90	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	107	-
18O2-PFHxS (surr.)	1	%	-	-	103	-
13C8-PFOS (surr.)	1	%	-	-	97	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	79	-
13C2-6:2 FTSA (surr.)	1	%	-	-	101	-
13C2-8:2 FTSA (surr.)	1	%	-	-	93	-
13C2-10:2 FTSA (surr.)	1	%	-	-	104	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

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Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	145
Toluene-d8 (surr.)	1	%	-	-	-	142
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	84
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2

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Client Sample ID			SB71_0.7-0.8	SB71_0.8-1.0	SB72_0-0.2	SB72_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075931	M23-My0075932	M23-My0075933	M23-My0075934
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	97
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	84

Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	3.2	20	7.0
Cadmium	0.4	mg/kg	-	< 0.4	0.7	< 0.4
Chromium	5	mg/kg	-	10	17	35
Copper	5	mg/kg	-	5.6	24	18
Lead	5	mg/kg	-	5.7	33	10

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	14	16
Zinc	5	mg/kg	-	11	130	29
Sample Properties						
% Moisture	1	%	22	9.8	14	14
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.2	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	141	51
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	60	55
p-Terphenyl-d14 (surr.)	1	%	-	-	68	56
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	77	-	-
13C5-PFPeA (surr.)	1	%	-	93	-	-
13C5-PFHxA (surr.)	1	%	-	103	-	-
13C4-PFHpA (surr.)	1	%	-	103	-	-
13C8-PFOA (surr.)	1	%	-	101	-	-
13C5-PFNA (surr.)	1	%	-	100	-	-
13C6-PFDA (surr.)	1	%	-	108	-	-
13C2-PFUnDA (surr.)	1	%	-	89	-	-
13C2-PFDoDA (surr.)	1	%	-	100	-	-
13C2-PFTeDA (surr.)	1	%	-	94	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	75	-	-
D3-N-MeFOSA (surr.)	1	%	-	84	-	-
D5-N-EtFOSA (surr.)	1	%	-	89	-	-
D7-N-MeFOSE (surr.)	1	%	-	82	-	-
D9-N-EtFOSE (surr.)	1	%	-	79	-	-
D5-N-EtFOSAA (surr.)	1	%	-	103	-	-
D3-N-MeFOSAA (surr.)	1	%	-	103	-	-

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	109	-	-
18O2-PFHxS (surr.)	1	%	-	100	-	-
13C8-PFOS (surr.)	1	%	-	96	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	105	-	-
13C2-6:2 FTSA (surr.)	1	%	-	100	-	-
13C2-8:2 FTSA (surr.)	1	%	-	112	-	-
13C2-10:2 FTSA (surr.)	1	%	-	110	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.3	-	-	9.3
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	7.9	-	-	8.5
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.16	-	-	0.070
Peroxide Extractable Sulfur	0.005	% S	0.24	-	-	0.096
HCl Extractable Sulfur	0.005	% S	N/A	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.077	-	-	0.025
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	48	-	-	16
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	2.0

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.47	-	-	0.27
Calcium - Peroxide	0.005	% Ca	9.5	-	-	2.6
Calcium - Acid Reacted	0.005	% Ca	9.0	-	-	2.4
Calcium - Acid Reacted (s-aCa)	0.005	% S	7.2	-	-	1.9
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	4500	-	-	1200
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.075	-	-	0.043
Magnesium - Peroxide	0.005	% Mg	0.41	-	-	0.19
Magnesium - Acid Reacted	0.005	% Mg	0.34	-	-	0.15
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.44	-	-	0.20
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	280	-	-	120
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	25	-	-	8.1
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	8.1	-	-	2.6
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	5000	-	-	1600
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	82	-	-	220
>2mm Fraction	0.005	g	8.6	-	-	4.8
Analysed Material	0.1	%	91	-	-	98
Extraneous Material	0.1	%	9.5	-	-	2.1
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	141	-
Toluene-d8 (surr.)	1	%	-	-	138	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	107	72
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	86
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-

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Client Sample ID			SB72_0.7-1.0	SB89_0-0.2	SB89_0.5-0.7	SB89_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075935	M23-My0075936	M23-My0075937	M23-My0075938
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	95	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	107	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	-

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.5	6.5	11	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	47	15	18	-
Copper	5	mg/kg	21	9.7	12	-
Lead	5	mg/kg	9.4	8.9	14	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	20	7.6	10	-
Zinc	5	mg/kg	33	25	45	-
Sample Properties						
% Moisture	1	%	18	11	14	15
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.0	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

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Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	62	65	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	56	56	-
p-Terphenyl-d14 (surr.)	1	%	-	61	52	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	47	-	-
13C5-PFPeA (surr.)	1	%	-	68	-	-
13C5-PFHxA (surr.)	1	%	-	85	-	-
13C4-PFHpA (surr.)	1	%	-	89	-	-
13C8-PFOA (surr.)	1	%	-	91	-	-

eurofins | Environment Testing

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	-	90	-	-
13C6-PFDA (surr.)	1	%	-	87	-	-
13C2-PFUnDA (surr.)	1	%	-	80	-	-
13C2-PFDoDA (surr.)	1	%	-	97	-	-
13C2-PFTeDA (surr.)	1	%	-	87	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	74	-	-
D3-N-MeFOSA (surr.)	1	%	-	82	-	-
D5-N-EtFOSA (surr.)	1	%	-	87	-	-
D7-N-MeFOSE (surr.)	1	%	-	79	-	-
D9-N-EtFOSE (surr.)	1	%	-	79	-	-
D5-N-EtFOSAA (surr.)	1	%	-	84	-	-
D3-N-MeFOSAA (surr.)	1	%	-	85	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	102	-	-
18O2-PFHxS (surr.)	1	%	-	98	-	-
13C8-PFOS (surr.)	1	%	-	93	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	73	-	-
13C2-6:2 FTSA (surr.)	1	%	-	95	-	-
13C2-8:2 FTSA (surr.)	1	%	-	95	-	-
13C2-10:2 FTSA (surr.)	1	%	-	95	-	-

eurofins | Environment Testing

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	8.4
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.21
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.35
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.14
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	84
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.44
Calcium - Peroxide	0.005	% Ca	-	-	-	11
Calcium - Acid Reacted	0.005	% Ca	-	-	-	10
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	8.3
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	5100
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.055
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.41
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.36
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.47
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	290
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	28
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	9.1
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	5700
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1

eurofins | Environment Testing

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	120
>2mm Fraction	0.005	g	-	-	-	38
Analysed Material	0.1	%	-	-	-	75
Extraneous Material	0.1	%	-	-	-	25
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-

eurofins | Environment Testing

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	65	-
Toluene-d8 (surr.)	1	%	-	-	56	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	67	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-

eurofins | Environment Testing

Client Sample ID			SB93_0.7-1.0	SB94_0-0.2	SB94_0.5-0.8	SB94_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-My0075939	M23-My0075940	M23-My0075941	M23-My0075942
Date Sampled			May 26, 2023	May 26, 2023	May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	63	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	67	-

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Client Sample ID			DUP09
Sample Matrix			Soil
Eurofins Sample No.			M23-My0075943
Date Sampled			May 26, 2023
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	3.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	9.4
Copper	5	mg/kg	6.7
Lead	5	mg/kg	11
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	17
Sample Properties			
% Moisture	1	%	12
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	62
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5

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Client Sample ID			DUP09
Sample Matrix			Soil
Eurofins Sample No.			M23-My0075943
Date Sampled			May 26, 2023
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	56
p-Terphenyl-d14 (surr.)	1	%	54
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	59
13C5-PFPeA (surr.)	1	%	82
13C5-PFHxA (surr.)	1	%	100
13C4-PFHpA (surr.)	1	%	102
13C8-PFOA (surr.)	1	%	104
13C5-PFNA (surr.)	1	%	101
13C6-PFDA (surr.)	1	%	103
13C2-PFUnDA (surr.)	1	%	95
13C2-PFDoDA (surr.)	1	%	108
13C2-PFTeDA (surr.)	1	%	103
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	80
D3-N-MeFOSA (surr.)	1	%	90
D5-N-EtFOSA (surr.)	1	%	96
D7-N-MeFOSE (surr.)	1	%	88
D9-N-EtFOSE (surr.)	1	%	87
D5-N-EtFOSAA (surr.)	1	%	93
D3-N-MeFOSAA (surr.)	1	%	94

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Client Sample ID			DUP09
Sample Matrix			Soil
Eurofins Sample No.			M23-My0075943
Date Sampled			May 26, 2023
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	114
18O2-PFHxS (surr.)	1	%	107
13C8-PFOS (surr.)	1	%	108
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	90
13C2-6:2 FTSA (surr.)	1	%	107
13C2-8:2 FTSA (surr.)	1	%	89
13C2-10:2 FTSA (surr.)	1	%	113
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
% Moisture	Melbourne	May 30, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Organotins	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Cyanide (total)	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 01, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Volatile Organics	Melbourne	Jun 01, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 30, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 07, 2023	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 07, 2023	6 Week
- Method: LTM-GEN-7050/7070			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	SB54_0-0.2	May 26, 2023		Soil	M23-My0075911						X				X					
2	SB55_0.3-0.5	May 26, 2023		Soil	M23-My0075912	X									X					X
3	SB56_0.3-0.5	May 26, 2023		Soil	M23-My0075913	X									X					X
4	SB56_0.6-0.8	May 26, 2023		Soil	M23-My0075914			X			X				X					
5	SB57_0-0.2	May 26, 2023		Soil	M23-My0075915										X		X		X	
6	SB57_0.8-1.0	May 26, 2023		Soil	M23-My0075916									X		X				
7	SB58_0-0.2	May 26, 2023		Soil	M23-My0075917	X									X					X
8	SB65_0-0.2	May 26, 2023		Soil	M23-My0075918			X							X		X		X	
9	SB65_0.4-0.6	May 26, 2023		Soil	M23-My0075919										X		X			
10	SB65_0.8-1.0	May 26, 2023		Soil	M23-My0075920						X			X	X					
11	SB66_0.4-0.7	May 26, 2023		Soil	M23-My0075921			X		X		X	X		X		X			
12	SB66_0.9-1.0	May 26, 2023		Soil	M23-My0075922				X		X				X					

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
13	SB67_0-0.2	May 26, 2023		Soil	M23-My0075923						X				X					
14	SB67_0.7-1.0	May 26, 2023		Soil	M23-My0075924						X				X					
15	SB68_0-0.2	May 26, 2023		Soil	M23-My0075925										X				X	
16	SB68_0.5-0.7	May 26, 2023		Soil	M23-My0075926										X		X			
17	SB68_0.8-1.0	May 26, 2023		Soil	M23-My0075927									X		X				
18	SB69_0-0.2	May 26, 2023		Soil	M23-My0075928	X					X				X					X
19	SB70_0-0.2	May 26, 2023		Soil	M23-My0075929										X		X			
20	SB70_0.7-1.0	May 26, 2023		Soil	M23-My0075930						X				X					
21	SB71_0.7-0.8	May 26, 2023		Soil	M23-My0075931										X		X			
22	SB71_0.8-1.0	May 26, 2023		Soil	M23-My0075932						X				X					
23	SB72_0-0.2	May 26, 2023		Soil	M23-My0075933						X				X				X	
24	SB72_0.5-0.7	May 26, 2023		Soil	M23-My0075934			X		X		X	X		X		X			
25	SB72_0.7-1.0	May 26, 2023		Soil	M23-My0075935									X		X				
26	SB89_0-0.2	May 26, 2023		Soil	M23-My0075936						X				X				X	
27	SB89_0.5-0.7	May 26, 2023		Soil	M23-My0075937			X		X		X	X		X		X			

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Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
28	SB89_0.7-1.0	May 26, 2023		Soil	M23-My0075938				X					X	X		X			
29	SB93_0.7-1.0	May 26, 2023		Soil	M23-My0075939						X				X					
30	SB94_0-0.2	May 26, 2023		Soil	M23-My0075940										X		X		X	
31	SB94_0.5-0.8	May 26, 2023		Soil	M23-My0075941			X		X		X	X		X		X			
32	SB94_0.8-1.0	May 26, 2023		Soil	M23-My0075942									X		X				
33	DUP09	May 26, 2023		Soil	M23-My0075943										X		X		X	
34	RB05	May 26, 2023		Water	M23-My0075944													X	X	
35	FB02	May 26, 2023		Water	M23-My0075945														X	
36	SB54_0.3-0.5	May 26, 2023		Soil	M23-My0075946		X													
37	SB54_0.8-1.0	May 26, 2023		Soil	M23-My0075947		X													
38	SB55_0-0.2	May 26, 2023		Soil	M23-My0075948		X													
39	SB55_0.8-1.0	May 26, 2023		Soil	M23-My0075949		X													
40	SB56_0-0.2	May 26, 2023		Soil	M23-My0075950		X													
41	SB57_0.3-0.5	May 26, 2023		Soil	M23-My0075951		X													
42	SB58_0.3-0.5	May 26, 2023		Soil	M23-My0075952		X													

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Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
43	SB58_0.5-0.7	May 26, 2023		Soil	M23-My0075953		X													
44	SB58_0.8-1.0	May 26, 2023		Soil	M23-My0075954		X													
45	SB66_0-0.2	May 26, 2023		Soil	M23-My0075955		X													
46	SB67_0.3-0.5	May 26, 2023		Soil	M23-My0075956		X													
47	SB68_0.3-0.5	May 26, 2023		Soil	M23-My0075957		X													
48	SB69_0.3-0.5	May 26, 2023		Soil	M23-My0075958		X													
49	SB69_0.5-0.7	May 26, 2023		Soil	M23-My0075959		X													
50	SB70_0.3-0.5	May 26, 2023		Soil	M23-My0075960		X													
51	SB71_0-0.2	May 26, 2023		Soil	M23-My0075961		X													
52	SB71_0.3-0.5	May 26, 2023		Soil	M23-My0075962		X													
53	SB88_0-0.2	May 26, 2023		Soil	M23-My0075963		X													
54	SB88_0.4-0.7	May 26, 2023		Soil	M23-My0075964		X													
55	SB88_0.8-1.0	May 26, 2023		Soil	M23-My0075965		X													
56	SB93_0-0.2	May 26, 2023		Soil	M23-My0075966		X													
57	SB93_0.3-0.5	May 26, 2023		Soil	M23-My0075967		X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
58	SB94_0.3-0.5	May 26, 2023		Soil	M23-My0075968		X													
Test Counts						4	23	6	2	4	12	4	4	6	33	33	13	1	9	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
Benzene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	108			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	106			80-120	Pass	
Mercury	%	117			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	102			80-120	Pass	
LCS - % Recovery							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons							
TRH C10-C14	%	85			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	74			70-130	Pass	
Anthracene	%	77			70-130	Pass	
Benz(a)anthracene	%	80			70-130	Pass	
Benzo(a)pyrene	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	%	80			70-130	Pass	
Benzo(g.h.i)perylene	%	92			70-130	Pass	
Benzo(k)fluoranthene	%	99			70-130	Pass	
Chrysene	%	118			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	71			70-130	Pass	
Fluorene	%	72			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	80			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
Phenanthrene	%	75			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	82			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	75			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	77			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	82			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	88			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	81			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	81			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	87			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	99			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	84			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	81			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	76			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	136			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	79			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	83			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	76			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	135			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	92			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	127			50-150	Pass	
LCS - % Recovery							

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	77			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	77			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M23-My0075913	CP	%	76			60-140	Pass	
Dibutyltin as Sn	M23-My0075913	CP	%	112			60-140	Pass	
Monobutyltin as Sn	M23-My0075913	CP	%	94			60-140	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-My0075920	CP	%	101			75-125	Pass	
Cadmium	M23-My0075920	CP	%	97			75-125	Pass	
Chromium	M23-My0075920	CP	%	97			75-125	Pass	
Copper	M23-My0075920	CP	%	98			75-125	Pass	
Lead	M23-My0075920	CP	%	104			75-125	Pass	
Mercury	M23-My0075920	CP	%	106			75-125	Pass	
Nickel	M23-My0075920	CP	%	98			75-125	Pass	
Zinc	M23-My0075920	CP	%	97			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0075926	CP	%	86			70-130	Pass	
TRH C6-C10	M23-My0075926	CP	%	71			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0075926	CP	%	90			70-130	Pass	
Toluene	M23-My0075926	CP	%	84			70-130	Pass	
Ethylbenzene	M23-My0075926	CP	%	86			70-130	Pass	
m&p-Xylenes	M23-My0075926	CP	%	102			70-130	Pass	
o-Xylene	M23-My0075926	CP	%	92			70-130	Pass	
Xylenes - Total*	M23-My0075926	CP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0075926	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-My0075929	CP	%	104			70-130	Pass	
TRH >C10-C16	M23-My0075929	CP	%	103			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M23-My0075912	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M23-My0075912	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M23-My0075912	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M23-My0075912	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M23-My0075912	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M23-My0075912	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M23-My0075912	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0075915	CP	%	13	13	1.1	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0075919	CP	mg/kg	5.0	5.0	1.6	30%	Pass	
Cadmium	M23-My0075919	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0075919	CP	mg/kg	19	14	28	30%	Pass	
Copper	M23-My0075919	CP	mg/kg	12	11	5.0	30%	Pass	
Lead	M23-My0075919	CP	mg/kg	16	12	30	30%	Pass	
Mercury	M23-My0075919	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0075919	CP	mg/kg	9.5	7.8	20	30%	Pass	
Zinc	M23-My0075919	CP	mg/kg	24	18	27	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0075920	CP	mg/kg	4.6	4.4	4.4	30%	Pass	
Cadmium	M23-My0075920	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0075920	CP	mg/kg	18	18	<1	30%	Pass	
Copper	M23-My0075920	CP	mg/kg	8.4	8.5	<1	30%	Pass	
Lead	M23-My0075920	CP	mg/kg	5.1	5.1	1.2	30%	Pass	
Mercury	M23-My0075920	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-My0075920	CP	mg/kg	8.2	8.4	2.9	30%	Pass	
Zinc	M23-My0075920	CP	mg/kg	13	13	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M23-My0075920	CP	pH Units	9.3	9.3	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-My0075920	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-My0075920	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M23-My0075920	CP	pH Units	8.6	8.6	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M23-My0075920	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M23-My0075920	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M23-My0075920	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M23-My0075920	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M23-My0075920	CP	% S	0.065	0.067	2.1	30%	Pass	
Peroxide Extractable Sulfur	M23-My0075920	CP	% S	0.11	0.11	<1	20%	Pass	
HCl Extractable Sulfur	M23-My0075920	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M23-My0075920	CP	% S	0.044	0.043	3.3	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M23-My0075920	CP	mol H+/t	27	27	3.3	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M23-My0075920	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M23-My0075920	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M23-My0075920	CP	% Ca	0.26	0.27	1.4	30%	Pass	
Calcium - Peroxide	M23-My0075920	CP	% Ca	4.1	3.8	7.2	20%	Pass	
Calcium - Acid Reacted	M23-My0075920	CP	% Ca	3.8	3.5	7.8	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M23-My0075920	CP	% S	3.0	2.8	7.8	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M23-My0075920	CP	mol H+/t	1900	1800	7.8	30%	Pass	

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Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M23-My0075920	CP	% Mg	0.030	0.030	<1	30%	Pass	
Magnesium - Peroxide	M23-My0075920	CP	% Mg	0.24	0.22	12	20%	Pass	
Magnesium - Acid Reacted	M23-My0075920	CP	% Mg	0.21	0.19	14	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M23-My0075920	CP	% S	0.28	0.25	14	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M23-My0075920	CP	mol H+/t	180	150	14	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M23-My0075920	CP	% CaCO3	11	10	9.5	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M23-My0075920	CP	mol H+/t	2200	2000	9.5	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M23-My0075920	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M23-My0075920	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M23-My0075920	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M23-My0075920	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-My0075921	CP	pH Units	8.8	8.9	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-My0075921	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-My0075921	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-My0075921	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-My0075921	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-My0075921	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-My0075921	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-My0075921	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-My0075921	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-My0075921	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Chrysene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Trichloroethene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-My0075921	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-My0075921	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-My0075921	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-My0075921	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-My0075921	CP	mg/kg	< 2	< 2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Phorate	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-My0075921	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-My0075921	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0075926	CP	%	15	14	2.2	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-My0075931	CP	mg/kg	6.6	5.7	15	30%	Pass	
Cadmium	M23-My0075931	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-My0075931	CP	mg/kg	23	24	3.2	30%	Pass	
Copper	M23-My0075931	CP	mg/kg	17	17	4.2	30%	Pass	
Lead	M23-My0075931	CP	mg/kg	19	21	10	30%	Pass	
Mercury	M23-My0075931	CP	mg/kg	0.1	0.2	13	30%	Pass	
Nickel	M23-My0075931	CP	mg/kg	11	11	3.9	30%	Pass	
Zinc	M23-My0075931	CP	mg/kg	38	41	9.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-My0075938	CP	%	14	14	1.8	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0075940	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0075940	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0075940	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0075940	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Caitlin Breeze	Senior Analyst-Inorganic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Inorganic
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Emily Rosenberg	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-SPOCAS
Carroll Lee	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **994339-W**
Project name URPS OSBORNE
Project ID 64648
Received Date May 30, 2023

Client Sample ID			**RB05**	**FB02**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M23-My0075944**	**M23-My0075945**
Date Sampled			**May 26, 2023**	**May 26, 2023**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	105	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB05	FB02
Sample Matrix			Water	Water
Eurofins Sample No.			M23-My0075944	M23-My0075945
Date Sampled			May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	123	104
13C5-PFPeA (surr.)	1	%	106	111
13C5-PFHxA (surr.)	1	%	115	124
13C4-PFHpA (surr.)	1	%	112	112
13C8-PFOA (surr.)	1	%	100	104
13C5-PFNA (surr.)	1	%	134	131
13C6-PFDA (surr.)	1	%	110	113
13C2-PFUnDA (surr.)	1	%	90	92
13C2-PFDoDA (surr.)	1	%	87	86
13C2-PFTeDA (surr.)	1	%	120	106
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	110	107
D3-N-MeFOSA (surr.)	1	%	113	120
D5-N-EtFOSA (surr.)	1	%	119	112
D7-N-MeFOSE (surr.)	1	%	123	125
D9-N-EtFOSE (surr.)	1	%	122	120
D5-N-EtFOSAA (surr.)	1	%	114	106
D3-N-MeFOSAA (surr.)	1	%	114	112
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB05	FB02
Sample Matrix			Water	Water
Eurofins Sample No.			M23-My0075944	M23-My0075945
Date Sampled			May 26, 2023	May 26, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	114	116
18O2-PFHxS (surr.)	1	%	93	95
13C8-PFOS (surr.)	1	%	92	87
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	101	112
13C2-6:2 FTSA (surr.)	1	%	100	111
13C2-8:2 FTSA (surr.)	1	%	103	119
13C2-10:2 FTSA (surr.)	1	%	115	117
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 31, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 31, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 31, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 31, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 31, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 31, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 31, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 31, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 30, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	SB54_0-0.2	May 26, 2023		Soil	M23-My0075911						X				X					
2	SB55_0.3-0.5	May 26, 2023		Soil	M23-My0075912	X									X					X
3	SB56_0.3-0.5	May 26, 2023		Soil	M23-My0075913	X									X					X
4	SB56_0.6-0.8	May 26, 2023		Soil	M23-My0075914			X			X				X					
5	SB57_0-0.2	May 26, 2023		Soil	M23-My0075915										X		X		X	
6	SB57_0.8-1.0	May 26, 2023		Soil	M23-My0075916									X		X				
7	SB58_0-0.2	May 26, 2023		Soil	M23-My0075917	X									X					X
8	SB65_0-0.2	May 26, 2023		Soil	M23-My0075918			X							X		X		X	
9	SB65_0.4-0.6	May 26, 2023		Soil	M23-My0075919										X		X			
10	SB65_0.8-1.0	May 26, 2023		Soil	M23-My0075920						X			X	X					
11	SB66_0.4-0.7	May 26, 2023		Soil	M23-My0075921			X		X		X	X		X		X			
12	SB66_0.9-1.0	May 26, 2023		Soil	M23-My0075922				X		X				X					

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 994339
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2023 9:02 AM
Due: Jun 6, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
13	SB67_0-0.2	May 26, 2023		Soil	M23-My0075923						X				X					
14	SB67_0.7-1.0	May 26, 2023		Soil	M23-My0075924						X				X					
15	SB68_0-0.2	May 26, 2023		Soil	M23-My0075925										X				X	
16	SB68_0.5-0.7	May 26, 2023		Soil	M23-My0075926										X		X			
17	SB68_0.8-1.0	May 26, 2023		Soil	M23-My0075927									X		X				
18	SB69_0-0.2	May 26, 2023		Soil	M23-My0075928	X					X				X					X
19	SB70_0-0.2	May 26, 2023		Soil	M23-My0075929										X		X			
20	SB70_0.7-1.0	May 26, 2023		Soil	M23-My0075930						X				X					
21	SB71_0.7-0.8	May 26, 2023		Soil	M23-My0075931										X		X			
22	SB71_0.8-1.0	May 26, 2023		Soil	M23-My0075932						X				X					
23	SB72_0-0.2	May 26, 2023		Soil	M23-My0075933						X				X				X	
24	SB72_0.5-0.7	May 26, 2023		Soil	M23-My0075934			X		X		X	X		X		X			
25	SB72_0.7-1.0	May 26, 2023		Soil	M23-My0075935									X		X				
26	SB89_0-0.2	May 26, 2023		Soil	M23-My0075936						X				X				X	
27	SB89_0.5-0.7	May 26, 2023		Soil	M23-My0075937			X		X		X	X		X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
28	SB89_0.7-1.0	May 26, 2023		Soil	M23-My0075938				X					X	X		X			
29	SB93_0.7-1.0	May 26, 2023		Soil	M23-My0075939						X				X					
30	SB94_0-0.2	May 26, 2023		Soil	M23-My0075940										X		X		X	
31	SB94_0.5-0.8	May 26, 2023		Soil	M23-My0075941			X		X		X	X		X		X			
32	SB94_0.8-1.0	May 26, 2023		Soil	M23-My0075942									X		X				
33	DUP09	May 26, 2023		Soil	M23-My0075943										X		X		X	
34	RB05	May 26, 2023		Water	M23-My0075944													X	X	
35	FB02	May 26, 2023		Water	M23-My0075945														X	
36	SB54_0.3-0.5	May 26, 2023		Soil	M23-My0075946		X													
37	SB54_0.8-1.0	May 26, 2023		Soil	M23-My0075947		X													
38	SB55_0-0.2	May 26, 2023		Soil	M23-My0075948		X													
39	SB55_0.8-1.0	May 26, 2023		Soil	M23-My0075949		X													
40	SB56_0-0.2	May 26, 2023		Soil	M23-My0075950		X													
41	SB57_0.3-0.5	May 26, 2023		Soil	M23-My0075951		X													
42	SB58_0.3-0.5	May 26, 2023		Soil	M23-My0075952		X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
43	SB58_0.5-0.7	May 26, 2023		Soil	M23-My0075953		X													
44	SB58_0.8-1.0	May 26, 2023		Soil	M23-My0075954		X													
45	SB66_0-0.2	May 26, 2023		Soil	M23-My0075955		X													
46	SB67_0.3-0.5	May 26, 2023		Soil	M23-My0075956		X													
47	SB68_0.3-0.5	May 26, 2023		Soil	M23-My0075957		X													
48	SB69_0.3-0.5	May 26, 2023		Soil	M23-My0075958		X													
49	SB69_0.5-0.7	May 26, 2023		Soil	M23-My0075959		X													
50	SB70_0.3-0.5	May 26, 2023		Soil	M23-My0075960		X													
51	SB71_0-0.2	May 26, 2023		Soil	M23-My0075961		X													
52	SB71_0.3-0.5	May 26, 2023		Soil	M23-My0075962		X													
53	SB88_0-0.2	May 26, 2023		Soil	M23-My0075963		X													
54	SB88_0.4-0.7	May 26, 2023		Soil	M23-My0075964		X													
55	SB88_0.8-1.0	May 26, 2023		Soil	M23-My0075965		X													
56	SB93_0-0.2	May 26, 2023		Soil	M23-My0075966		X													
57	SB93_0.3-0.5	May 26, 2023		Soil	M23-My0075967		X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794														X	X	X				
58	SB94_0.3-0.5	May 26, 2023		Soil	M23-My0075968		X													
Test Counts						4	23	6	2	4	12	4	4	6	33	33	13	1	9	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	81			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	73			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	80			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	84			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	137			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	85			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	88			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	96			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	102			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	88			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	91			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	85			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	94			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	79			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	71			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-My0075945	CP	%	125			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0075945	CP	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0075945	CP	%	103			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0075945	CP	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0075945	CP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-My0075945	CP	%	98			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0075945	CP	%	98			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0075945	CP	%	117			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	M23-My0075945	CP	%	106			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0075945	CP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-My0075945	CP	%	108			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0075945	CP	%	124			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0075945	CP	%	127			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0075945	CP	%	133			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0075945	CP	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0075945	CP	%	111			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0075945	CP	%	117			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-My0075945	CP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0075945	CP	%	118			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0075945	CP	%	101			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0075945	CP	%	110			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0075945	CP	%	105			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0075945	CP	%	124			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0075945	CP	%	112			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0075945	CP	%	107			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0075945	CP	%	132			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0075945	CP	%	118			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0075945	CP	%	112			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0075945	CP	%	101			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorodecanoic acid (PFDA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0075944	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0075944	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)			'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB90_0.0-0.2	Soil	30/05/2023		soil jar	1	-		X															**'NOTES**
SB90_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	****Please send SPLIT12 and SPLIT14 to Envirolab for analysis with copy of this COC**
SB90_0.7-1.0	Soil	30/05/2023		soil jar	1	-																	
SB91_0.0-0.2	Soil	30/05/2023		soil jar	1	-							X										
SB91_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB91_0.6-0.8	Soil	30/05/2023		soil jar	1	-		X															
SB91_0.8-1.0	Soil	30/05/2023		soil jar	1	-																	
SB92_0.0-0.3	Soil	30/05/2023		soil jar	1	-																	
SB92_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB92_0.8-1.0	Soil	30/05/2023		soil jar	1	-		X															
SB95_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB95_0.5-0.7	Soil	30/05/2023		soil jar	1	-																	
SB95_0.9-1.0	Soil	30/05/2023		soil jar	1	-		X															
SB96_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB96_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB96_0.5-0.7	Soil	30/05/2023		soil jar	1	-							X										
SB96_0.8-1.0	Soil	30/05/2023		soil jar	1	-																	
SB97_0.0-0.3	Soil	30/05/2023		soil jar	1	-																	
SB97_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB97_0.7-1.0	Soil	30/05/2023		soil jar	1	-							X	X	X		X						
SB98_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB98_0.4-0.6	Soil	30/05/2023		soil jar	1	-							X										
SB98_0.7-1.0	Soil	30/05/2023		soil jar	1	-																	
SB99_0.0-0.2	Soil	30/05/2023		soil jar	1	-		X															
SB99_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB99_0.7-1.0	Soil	30/05/2023		soil jar	1	-																	
SB101_0.0-0.3	Soil	30/05/2023		soil jar	1	-		X															
SB101_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB101_0.8-1.0	Soil	30/05/2023		soil jar	1	-																	
SB102_0.0-0.3	Soil	30/05/2023		soil jar, PFAS jar	2	-			X														
SB102_0.5-0.7	Soil	30/05/2023		soil jar	1	-																	
SB102_0.8-1.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X													
SB103_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB103_0.5-0.8	Soil	30/05/2023		soil jar	1	-																	
SB103_0.8-1.0	Soil	30/05/2023		soil jar	1	-		X															

#945189

1/6/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)		
SB107_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-		X	X	X												
SB107_0.3-0.5	Soil	30/05/2023		soil jar	1	-																
SB107_0.8-1.0	Soil	30/05/2023		soil jar	1	-																
SB107_1.5-1.7	Soil	30/05/2023		soil jar	1	-																
SB107_2.2-2.4	Soil	30/05/2023		soil jar	1	-		X										X	X			
SB107_2.8-3.0	Soil	30/05/2023		soil jar	1	-																
SB108_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-		X	X	X												
SB108_0.3-0.5	Soil	30/05/2023		soil jar	1	-																
SB108_0.8-1.0	Soil	30/05/2023		soil jar	1	-							X	X	X		X					
SB108_1.5-1.7	Soil	30/05/2023		soil jar	1	-																
SB108_2.1-2.3	Soil	30/05/2023		soil jar	1	-		X														
SB108_2.8-3.0	Soil	30/05/2023		soil jar	1	-		X										X	X			
SB109_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X												
SB109_0.3-0.5	Soil	30/05/2023		soil jar	1	-																
SB109_0.8-1.0	Soil	30/05/2023		soil jar	1	-		X										X	X			
SB109_1.5-1.7	Soil	30/05/2023		soil jar	1	-																
SB109_2.3-2.5	Soil	30/05/2023		soil jar	1	-																
SB109_2.8-3.0	Soil	30/05/2023		soil jar	1	-			X													
SB110_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-																
SB110_0.4-0.6	Soil	30/05/2023		soil jar	1	-																
SB110_0.9-1.1	Soil	30/05/2023		soil jar	1	-							X	X	X		X					
SB110_1.5-1.7	Soil	30/05/2023		soil jar	1	-																
SB110_2.1-2.3	Soil	30/05/2023		soil jar	1	-		X														
SB110_2.7-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X												
SB112_0.0-0.2	Soil	30/05/2023		soil jar	1	-																
SB112_0.3-0.5	Soil	30/05/2023		soil jar	1	-																
SB112_0.8-1.0	Soil	30/05/2023		soil jar	1	-																
SB112_1.5-1.8	Soil	30/05/2023		soil jar	1	-							X	X		X						
SB112_1.9-2.2	Soil	30/05/2023		soil jar	1	-		X														
SB112_2.7-3.0	Soil	30/05/2023		soil jar	1	-																
SB113_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X													
SB113_0.3-0.5	Soil	30/05/2023		soil jar	1	-																
SB113_0.8-1.0	Soil	30/05/2023		soil jar	1	-							X	X	X		X					
SB113_1.5-1.7	Soil	30/05/2023		soil jar	1	-																
SB113_1.7-1.9	Soil	30/05/2023		soil jar	1	-																

#905184

1/6/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)				*NOTES
SB113_2.3-2.5	Soil	30/05/2023		soil jar	1	-		X																
SB113_2.8-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X														
SB114_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X				X	X	X		X							
SB114_0.3-0.5	Soil	30/05/2023		soil jar	1	-												X	X					
SB114_1.0-1.2	Soil	30/05/2023		soil jar	1	-																		
SB114_1.5-1.8	Soil	30/05/2023		soil jar	1	-		X										X	X					
SB114_2.2-2.4	Soil	30/05/2023		soil jar	1	-																		
SB114_2.8-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X														
SB121_0.0-0.2	Soil	30/05/2023		soil jar	1	-																		
SB121_0.4-0.6	Soil	30/05/2023		soil jar	1	-																		
SB121_0.7-1.0	Soil	30/05/2023		soil jar	1	-																		
SB122_0.0-0.2	Soil	30/05/2023		soil jar	1	-		X					X											
SB122_0.5-0.7	Soil	30/05/2023		soil jar	1	-																		
SB122_0.7-1.0	Soil	30/05/2023		soil jar	1	-																		
SB123_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X															
SB123_0.5-0.7	Soil	30/05/2023		soil jar	1	-																		
SB123_0.8-1.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X														
SB124_0.0-0.3	Soil	30/05/2023		soil jar	1	-																		
SB124_0.4-0.6	Soil	30/05/2023		soil jar	1	-																		
SB124_0.6-0.8	Soil	30/05/2023		soil jar	1	-																		
SB124_0.8-1.0	Soil	30/05/2023		soil jar	1	-																		
SB125_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X				X											
SB125_0.3-0.5	Soil	30/05/2023		soil jar	1	-																		
SB125_1.0-1.2	Soil	30/05/2023		soil jar	1	-																		
SB125_1.2-1.4	Soil	30/05/2023		soil jar	1	-																		
SB125_1.8-2.0	Soil	30/05/2023		soil jar	1	-																		
SB125_2.4-2.6	Soil	30/05/2023		soil jar	1	-							X					X	X					
SB125_2.8-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X														
SB130_0.0-0.2	Soil	30/05/2023		soil jar	1	-																		
SB130_0.3-0.5	Soil	30/05/2023		soil jar	1	-																		
SB130_0.8-1.1	Soil	30/05/2023		soil jar	1	-																		
SB130_1.5-1.7	Soil	30/05/2023		soil jar	1	-																		
SB130_2.2-2.4	Soil	30/05/2023		soil jar	1	-																		
SB130_2.7-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X			X					X	X					
SB131_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X															

#495184

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		***Container Type and Preservative Codes:** P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)			'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB131_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB131_1.0-1.2	Soil	30/05/2023		soil jar	1	-																	
SB131_1.3-1.5	Soil	30/05/2023		soil jar, PFAS jar	2	-			X														
SB131_1.5-1.8	Soil	30/05/2023		soil jar	1	-							X					X	X				
SB131_2.3-2.5	Soil	30/05/2023		soil jar	1	-																	
SB131_2.8-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X			X										
SB132_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB132_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB132_0.6-0.8	Soil	30/05/2023		soil jar	1	-																	
SB132_0.9-1.1	Soil	30/05/2023		soil jar	1	-																	
SB132_1.5-1.8	Soil	30/05/2023		soil jar	1	-																	
SB132_2.0-2.3	Soil	30/05/2023		soil jar	1	-																	
SB132_2.7-3.0	Soil	30/05/2023		soil jar	1	-		X					X					X	X				
SB133_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-																	
SB133_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB133_0.6-0.8	Soil	30/05/2023		soil jar	1	-							X	X	X		X						
SB133_1.0-1.2	Soil	30/05/2023		soil jar	1	-																	
SB133_1.5-1.7	Soil	30/05/2023		soil jar	1	-																	
SB133_1.9-2.1	Soil	30/05/2023		soil jar	1	-																	
SB133_2.3-2.5	Soil	30/05/2023		soil jar	1	-							X										
SB133_2.8-3.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X													
SB163_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X				X	X		X							
SB163_0.4-0.6	Soil	30/05/2023		soil jar	1	-																	
SB163_0.8-1.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-				X													
SB164_0.0-0.2	Soil	30/05/2023		soil jar	1	-																	
SB164_0.5-0.7	Soil	30/05/2023		soil jar	1	-																	
SB164_0.7-1.0	Soil	30/05/2023		soil jar	1	-		X															
SB165_0.0-0.3	Soil	30/05/2023		soil jar	1	-							X	X		X							
SB165_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB165_0.6-0.7	Soil	30/05/2023		soil jar	1	-																	
SB165_0.7-1.0	Soil	30/05/2023		soil jar	1	-		X															
SB166_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar	2	-			X				X	X	X		X						
SB166_0.3-0.5	Soil	30/05/2023		soil jar	1	-																	
SB166_0.5-0.8	Soil	30/05/2023		soil jar	1	-																	
SB166_0.8-1.0	Soil	30/05/2023		soil jar, SPOCAS bag	2	-		X		X													

#995184

1/6/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JE/AJ/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)			'NOTES
SB173_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB173_0.4-0.6	Soil	30/05/2023		soil jar	1	-																	
SB173_1.1-1.3	Soil	30/05/2023		soil jar	1	-																	
SB173_1.8-2.0	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB173_2.1-2.4	Soil	30/05/2023		soil jar	1	-																	
SB173_2.7-3.0	Soil	30/05/2023		soil jar	1	-																	
SB174_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB174_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB174_1.0-1.2	Soil	30/05/2023		soil jar	1	-																	
SB174_1.3-1.5	Soil	30/05/2023		soil jar	1	-							X	X	X		X						
SB174_1.5-1.7	Soil	30/05/2023		soil jar	1	-																	
SB174_1.7-1.9	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB174_2.7-3.0	Soil	30/05/2023		2x soil jar	2	-														X			
DUP12	Soil	30/05/2023		soil jar	1	-							X										
DUP13	Soil	30/05/2023		PFAS jar	1	-																	
DUP14	Soil	30/05/2023		soil jar	1	-		X															
SPLIT12	Soil	30/05/2023		soil jar	1	-							X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT14	Soil	30/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB07	Water	30/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB04	Water	30/05/2023		1x PFAS	1	-			X														
						TOTAL	1	26	17	16	0	0	24	11	8	3	8	11	11	1	0	0	

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

#995189
1/6/23

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)			'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB173_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB173_0.4-0.6	Soil	30/05/2023		soil jar	1	-																	
SB173_1.1-1.3	Soil	30/05/2023		soil jar	1	-																	
SB173_1.8-2.0	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB173_2.1-2.4	Soil	30/05/2023		soil jar	1	-																	
SB173_2.7-3.0	Soil	30/05/2023		soil jar	1	-																	
SB174_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB174_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB174_1.0-1.2	Soil	30/05/2023		soil jar	1	-																	
SB174_1.3-1.5	Soil	30/05/2023		soil jar	1	-							X	X	X		X						
SB174_1.5-1.7	Soil	30/05/2023		soil jar	1	-																	
SB174_1.7-1.9	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB174_2.7-3.0	Soil	30/05/2023		2x soil jar	2	-														X			
DUP12	Soil	30/05/2023		soil jar	1	-							X										
DUP13	Soil	30/05/2023		PFAS jar	1	-																	
DUP14	Soil	30/05/2023		soil jar	1	-		X															
SPLIT12	Soil	30/05/2023		soil jar	1	-							X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT14	Soil	30/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB07	Water	30/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB04	Water	30/05/2023		1x PFAS	1	-			X														
						TOTAL	1	26	17	16	0	0	24	11	8	3	8	11	11	1	0	0	

#995184

1/6/23

Tyrone Gowans

From: Amy Meunier
Sent: Thursday, 1 June 2023 12:32 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected in the field Tuesday (30/5) and sent to Melb yesterday (JBS&G job 64648)
Attachments: COC_64648S6_Eurofins.xlsx

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Tyrone – COC attached for JBSG samples

Kind regards,

#995184
1/6/23

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Thursday, 1 June 2023 11:43 AM
To: Amy Meunier <AmyMeunier@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected in the field Tuesday (30/5) and sent to Melb yesterday (JBS&G job 64648)
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Parimal and Amy,

Please find attached completed COC for soil samples collected Tuesday (30/5) and sent to Melb yesterday (should have arrived this morning). Please note the following:

- Some samples are for SPOCAS analysis (short holding time)
- SPLIT12 and SPLIT14 are to be sent to Envirolab for analysis (with copy of the COC please)

Thanks,

eurofins | Environment Testing

PROJECT INFORMATION

Date Received: 31/05/'23

Company: JBS&G

Contact person: Kate. L.

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 64648

COC: Attached ☐
E-mailed ☑
Not received ☐

on IB

SPOCAS was frozen

#995189

1/6/23

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

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Rolleston,
Christchurch 7675
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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Jack Ayers
Project name:	URPS Osborne
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	Jun 1, 2023 11:43 AM
Eurofins reference	995189

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

SAMPLE SB131_1.3-1.5 RECEIVED WITH NO PFAS JAR

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Jack Ayers - jayers@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **995189-S**
Project name URPS Osborne
Project ID 64648
Received Date Jun 01, 2023

Client Sample ID			**SB90_0.0-0.2**	**SB91_0.0-0.2**	**SB91_0.6-0.8**	**SB92_0.8-1.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Jn0002377**	**M23-Jn0002378**	**M23-Jn0002379**	**M23-Jn0002380**
Date Sampled			**May 30, 2023**	**May 30, 2023**	**May 30, 2023**	**May 30, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.6	5.2	5.1	4.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	14	18	23
Copper	5	mg/kg	8.3	12	14	12
Lead	5	mg/kg	11	21	19	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.2	8.5	11	12
Zinc	5	mg/kg	23	34	33	30
Sample Properties						
% Moisture	1	%	14	20	22	18
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	93	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB90_0.0-0.2	SB91_0.0-0.2	SB91_0.6-0.8	SB92_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002377	M23-Jn0002378	M23-Jn0002379	M23-Jn0002380
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	63	-	-
p-Terphenyl-d14 (surr.)	1	%	-	58	-	-

Client Sample ID			SB95_0.9-1.0	SB96_0.5-0.7	SB97_0.7-1.0	SB98_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002381	M23-Jn0002382	M23-Jn0002383	M23-Jn0002384
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	16	7.8	7.2	6.0
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	46	28	22	15
Copper	5	mg/kg	43	16	19	12
Lead	5	mg/kg	66	21	45	22
Mercury	0.1	mg/kg	0.8	0.1	0.3	< 0.1
Nickel	5	mg/kg	22	14	10	8.3
Zinc	5	mg/kg	120	43	77	48
Sample Properties						
% Moisture	1	%	30	22	19	16
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	28	< 20
TRH C15-C28	50	mg/kg	-	< 50	430	< 50
TRH C29-C36	50	mg/kg	-	< 50	140	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	598	< 50
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20

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Client Sample ID			SB95_0.9-1.0	SB96_0.5-0.7	SB97_0.7-1.0	SB98_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002381	M23-Jn0002382	M23-Jn0002383	M23-Jn0002384
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	-	< 50	140	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	140	< 50
TRH >C16-C34	100	mg/kg	-	< 100	480	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	620	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	83	79	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	71	108	50
p-Terphenyl-d14 (surr.)	1	%	-	53	120	52
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB95_0.9-1.0	SB96_0.5-0.7	SB97_0.7-1.0	SB98_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002381	M23-Jn0002382	M23-Jn0002383	M23-Jn0002384
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	79	-
Toluene-d8 (surr.)	1	%	-	-	82	-

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Client Sample ID			SB95_0.9-1.0	SB96_0.5-0.7	SB97_0.7-1.0	SB98_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002381	M23-Jn0002382	M23-Jn0002383	M23-Jn0002384
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-

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Client Sample ID			SB95_0.9-1.0	SB96_0.5-0.7	SB97_0.7-1.0	SB98_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002381	M23-Jn0002382	M23-Jn0002383	M23-Jn0002384
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	109	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-

Client Sample ID			SB99_0.0-0.2	SB101_0.0-0.3	SB102_0.0-0.3	SB102_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002385	M23-Jn0002386	M23-Jn0002387	M23-Jn0002388
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.5	5.4	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	9.5	14	-	-
Copper	5	mg/kg	5.3	8.0	-	-
Lead	5	mg/kg	5.0	7.3	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	< 5	7.4	-	-
Zinc	5	mg/kg	11	15	-	-
Sample Properties						
% Moisture	1	%	12	12	10	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-

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Client Sample ID			SB99_0.0-0.2	SB101_0.0-0.3	SB102_0.0-0.3	SB102_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002385	M23-Jn0002386	M23-Jn0002387	M23-Jn0002388
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	79	-
13C5-PFPeA (surr.)	1	%	-	-	102	-
13C5-PFHxA (surr.)	1	%	-	-	106	-
13C4-PFHpA (surr.)	1	%	-	-	98	-
13C8-PFOA (surr.)	1	%	-	-	103	-
13C5-PFNA (surr.)	1	%	-	-	102	-
13C6-PFDA (surr.)	1	%	-	-	84	-
13C2-PFUnDA (surr.)	1	%	-	-	69	-
13C2-PFDoDA (surr.)	1	%	-	-	95	-
13C2-PFTeDA (surr.)	1	%	-	-	110	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	80	-
D3-N-MeFOSA (surr.)	1	%	-	-	103	-
D5-N-EtFOSA (surr.)	1	%	-	-	101	-
D7-N-MeFOSE (surr.)	1	%	-	-	99	-
D9-N-EtFOSE (surr.)	1	%	-	-	85	-
D5-N-EtFOSAA (surr.)	1	%	-	-	105	-
D3-N-MeFOSAA (surr.)	1	%	-	-	98	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	87	-
18O2-PFHxS (surr.)	1	%	-	-	75	-
13C8-PFOS (surr.)	1	%	-	-	80	-

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Client Sample ID			SB99_0.0-0.2	SB101_0.0-0.3	SB102_0.0-0.3	SB102_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002385	M23-Jn0002386	M23-Jn0002387	M23-Jn0002388
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	100	-
13C2-6:2 FTSA (surr.)	1	%	-	-	96	-
13C2-8:2 FTSA (surr.)	1	%	-	-	120	-
13C2-10:2 FTSA (surr.)	1	%	-	-	97	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	8.2
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.016
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.052
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.036
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	23
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.20
Calcium - Peroxide	0.005	% Ca	-	-	-	9.4
Calcium - Acid Reacted	0.005	% Ca	-	-	-	9.2
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	7.3
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	4600

eurofins | Environment Testing

Client Sample ID			SB99_0.0-0.2	SB101_0.0-0.3	SB102_0.0-0.3	SB102_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002385	M23-Jn0002386	M23-Jn0002387	M23-Jn0002388
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.032
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.41
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.37
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.49
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	310
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	21
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	6.7
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	4200
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	140
>2mm Fraction	0.005	g	-	-	-	1.8
Analysed Material	0.1	%	-	-	-	99
Extraneous Material	0.1	%	-	-	-	1.3

Client Sample ID			SB103_0.8-1.0	SB107_0.0-0.2	SB107_2.2-2.4	SB108_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002389	M23-Jn0002390	M23-Jn0002391	M23-Jn0002392
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.4	6.5	2.8	8.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	17	9.6	17
Copper	5	mg/kg	12	13	23	14
Lead	5	mg/kg	6.6	23	9.9	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	9.0	6.6	10.0
Zinc	5	mg/kg	17	53	44	61
Sample Properties						
% Moisture	1	%	17	15	21	16
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	< 5

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Client Sample ID			SB103_0.8-1.0	SB107_0.0-0.2	SB107_2.2-2.4	SB108_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002389	M23-Jn0002390	M23-Jn0002391	M23-Jn0002392
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	67	-	58
13C5-PFPeA (surr.)	1	%	-	123	-	91
13C5-PFHxA (surr.)	1	%	-	132	-	96
13C4-PFHpA (surr.)	1	%	-	124	-	90
13C8-PFOA (surr.)	1	%	-	135	-	92
13C5-PFNA (surr.)	1	%	-	119	-	90
13C6-PFDA (surr.)	1	%	-	72	-	72
13C2-PFUnDA (surr.)	1	%	-	72	-	52
13C2-PFDoDA (surr.)	1	%	-	113	-	82
13C2-PFTeDA (surr.)	1	%	-	138	-	94
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	86	-	67
D3-N-MeFOSA (surr.)	1	%	-	135	-	94
D5-N-EtFOSA (surr.)	1	%	-	139	-	94
D7-N-MeFOSE (surr.)	1	%	-	132	-	89
D9-N-EtFOSE (surr.)	1	%	-	119	-	86
D5-N-EtFOSAA (surr.)	1	%	-	134	-	98
D3-N-MeFOSAA (surr.)	1	%	-	121	-	88
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	108	-	79
18O2-PFHxS (surr.)	1	%	-	109	-	70
13C8-PFOS (surr.)	1	%	-	84	-	63

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Client Sample ID			SB103_0.8-1.0	SB107_0.0-0.2	SB107_2.2-2.4	SB108_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002389	M23-Jn0002390	M23-Jn0002391	M23-Jn0002392
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	119	-	89
13C2-6:2 FTSA (surr.)	1	%	-	147	-	89
13C2-8:2 FTSA (surr.)	1	%	-	111	-	85
13C2-10:2 FTSA (surr.)	1	%	-	123	-	90
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.4	-	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.7	-	8.4
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.075	-	0.10
Peroxide Extractable Sulfur	0.005	% S	-	0.14	-	0.14
HCl Extractable Sulfur	0.005	% S	-	N/A	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.062	-	0.038
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	39	-	24
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.26	-	0.27
Calcium - Peroxide	0.005	% Ca	-	10.0	-	5.2
Calcium - Acid Reacted	0.005	% Ca	-	9.7	-	4.9
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	7.8	-	4.0
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	4800	-	2500

eurofins | Environment Testing

Client Sample ID			SB103_0.8-1.0	SB107_0.0-0.2	SB107_2.2-2.4	SB108_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002389	M23-Jn0002390	M23-Jn0002391	M23-Jn0002392
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.029	-	0.059
Magnesium - Peroxide	0.005	% Mg	-	0.37	-	0.29
Magnesium - Acid Reacted	0.005	% Mg	-	0.34	-	0.23
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.45	-	0.30
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	280	-	190
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	23	-	12
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	7.4	-	3.9
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	4600	-	2500
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	150	-	19
>2mm Fraction	0.005	g	-	8.2	-	5.3
Analysed Material	0.1	%	-	95	-	78
Extraneous Material	0.1	%	-	5.1	-	22
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	101	-
Cyanide (total)	5	mg/kg	-	-	< 5	-

Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	120	25	-
Cadmium	0.4	mg/kg	< 0.4	18	9.4	-
Chromium	5	mg/kg	9.0	16	50	-
Copper	5	mg/kg	14	12	24	-
Lead	5	mg/kg	24	200	120	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	8.2	23	30	-
Zinc	5	mg/kg	94	78	63	-

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Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	12	47	41	13
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	72	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	1.2	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	1.0	-	-	-
Pyrene	0.5	mg/kg	1.0	-	-	-
Total PAH*	0.5	mg/kg	3.2	-	-	-
2-Fluorobiphenyl (surr.)	1	%	114	-	-	-
p-Terphenyl-d14 (surr.)	1	%	142	-	-	-

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Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	72	-	-	-
Toluene-d8 (surr.)	1	%	71	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	104	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-

eurofins | Environment Testing

Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	134	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	104	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	45
13C5-PFPeA (surr.)	1	%	-	-	-	63

eurofins | Environment Testing

Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFHxA (surr.)	1	%	-	-	-	63
13C4-PFHpA (surr.)	1	%	-	-	-	73
13C8-PFOA (surr.)	1	%	-	-	-	68
13C5-PFNA (surr.)	1	%	-	-	-	71
13C6-PFDA (surr.)	1	%	-	-	-	54
13C2-PFUnDA (surr.)	1	%	-	-	-	49
13C2-PFDoDA (surr.)	1	%	-	-	-	59
13C2-PFTeDA (surr.)	1	%	-	-	-	74
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	70
D3-N-MeFOSA (surr.)	1	%	-	-	-	69
D5-N-EtFOSA (surr.)	1	%	-	-	-	94
D7-N-MeFOSE (surr.)	1	%	-	-	-	43
D9-N-EtFOSE (surr.)	1	%	-	-	-	61
D5-N-EtFOSAA (surr.)	1	%	-	-	-	91
D3-N-MeFOSAA (surr.)	1	%	-	-	-	71
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	62
18O2-PFHxS (surr.)	1	%	-	-	-	62
13C8-PFOS (surr.)	1	%	-	-	-	59
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	51
13C2-6:2 FTSA (surr.)	1	%	-	-	-	61
13C2-8:2 FTSA (surr.)	1	%	-	-	-	75
13C2-10:2 FTSA (surr.)	1	%	-	-	-	49

eurofins | Environment Testing

Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	8.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.037
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.078
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.041
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	25
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.21
Calcium - Peroxide	0.005	% Ca	-	-	-	7.9
Calcium - Acid Reacted	0.005	% Ca	-	-	-	7.7
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	6.2
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	3900
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.039
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.34
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.30
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.40
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	250
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	18
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	5.7
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	3600
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1

eurofins | Environment Testing

Client Sample ID			SB108_0.8-1.0	SB108_2.1-2.3	SB108_2.8-3.0	SB109_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002393	M23-Jn0002394	M23-Jn0002395	M23-Jn0002396
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	160
>2mm Fraction	0.005	g	-	-	-	6.1
Analysed Material	0.1	%	-	-	-	96
Extraneous Material	0.1	%	-	-	-	3.8
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	93	-
Cyanide (total)	5	mg/kg	-	-	< 5	-

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.2	-	4.8	21
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	14
Chromium	5	mg/kg	15	-	11	15
Copper	5	mg/kg	10	-	11	21
Lead	5	mg/kg	7.5	-	20	280
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	8.3	-	7.6	13
Zinc	5	mg/kg	16	-	54	60
Sample Properties						
% Moisture	1	%	13	21	13	31
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-

eurofins | Environment Testing

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	76	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	97	-
p-Terphenyl-d14 (surr.)	1	%	-	-	108	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	76	-
Toluene-d8 (surr.)	1	%	-	-	78	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-

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Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	67	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-

eurofins | Environment Testing

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	76	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	67	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	47	-	-
13C5-PFPeA (surr.)	1	%	-	60	-	-
13C5-PFHxA (surr.)	1	%	-	55	-	-
13C4-PFHpA (surr.)	1	%	-	57	-	-
13C8-PFOA (surr.)	1	%	-	54	-	-
13C5-PFNA (surr.)	1	%	-	56	-	-
13C6-PFDA (surr.)	1	%	-	51	-	-
13C2-PFUnDA (surr.)	1	%	-	47	-	-
13C2-PFDoDA (surr.)	1	%	-	54	-	-
13C2-PFTeDA (surr.)	1	%	-	64	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-

eurofins | Environment Testing

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	81	-	-
D3-N-MeFOSA (surr.)	1	%	-	67	-	-
D5-N-EtFOSA (surr.)	1	%	-	82	-	-
D7-N-MeFOSE (surr.)	1	%	-	39	-	-
D9-N-EtFOSE (surr.)	1	%	-	51	-	-
D5-N-EtFOSAA (surr.)	1	%	-	71	-	-
D3-N-MeFOSAA (surr.)	1	%	-	57	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	62	-	-
18O2-PFHxS (surr.)	1	%	-	54	-	-
13C8-PFOS (surr.)	1	%	-	66	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	37	-	-
13C2-6:2 FTSA (surr.)	1	%	-	43	-	-
13C2-8:2 FTSA (surr.)	1	%	-	63	-	-
13C2-10:2 FTSA (surr.)	1	%	-	51	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-	-
Dibutyltin	1	mg/kg	< 1	-	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-	-

eurofins | Environment Testing

Client Sample ID			SB109_0.8-1.0	SB109_2.8-3.0	SB110_0.9-1.1	SB110_2.1-2.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002397	M23-Jn0002398	M23-Jn0002399	M23-Jn0002400
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organotins						
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tripropyltin as Sn (surr.)	1	%	96	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-

Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	3.0	< 2	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	5.8	8.8	-
Copper	5	mg/kg	-	26	28	-
Lead	5	mg/kg	-	14	9.1	-
Mercury	0.1	mg/kg	-	0.1	< 0.1	-
Nickel	5	mg/kg	-	10	9.1	-
Zinc	5	mg/kg	-	23	5.9	-
Sample Properties						
% Moisture	1	%	27	25	29	12
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	59	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	114	-	-
p-Terphenyl-d14 (surr.)	1	%	-	134	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	59	-	-
Toluene-d8 (surr.)	1	%	-	67	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-

eurofins | Environment Testing

Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	116	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	43
13C5-PFPeA (surr.)	1	%	-	-	-	66
13C5-PFHxA (surr.)	1	%	-	-	-	67
13C4-PFHpA (surr.)	1	%	-	-	-	76
13C8-PFOA (surr.)	1	%	-	-	-	70
13C5-PFNA (surr.)	1	%	-	-	-	76
13C6-PFDA (surr.)	1	%	-	-	-	73
13C2-PFUnDA (surr.)	1	%	-	-	-	62
13C2-PFDoDA (surr.)	1	%	-	-	-	74
13C2-PFTeDA (surr.)	1	%	-	-	-	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	99
D3-N-MeFOSA (surr.)	1	%	-	-	-	84
D5-N-EtFOSA (surr.)	1	%	-	-	-	110
D7-N-MeFOSE (surr.)	1	%	-	-	-	58

eurofins | Environment Testing

Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D9-N-EtFOSE (surr.)	1	%	-	-	-	69
D5-N-EtFOSAA (surr.)	1	%	-	-	-	98
D3-N-MeFOSAA (surr.)	1	%	-	-	-	83
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	68
18O2-PFHxS (surr.)	1	%	-	-	-	64
13C8-PFOS (surr.)	1	%	-	-	-	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	59
13C2-6:2 FTSA (surr.)	1	%	-	-	-	66
13C2-8:2 FTSA (surr.)	1	%	-	-	-	88
13C2-10:2 FTSA (surr.)	1	%	-	-	-	65
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.7	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.24	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.25	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.011	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	6.9	-	-	-

eurofins | Environment Testing

Client Sample ID			SB110_2.7-3.0	SB112_1.5-1.8	SB112_1.9-2.2	SB113_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002401	M23-Jn0002402	M23-Jn0002403	M23-Jn0002404
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.24	-	-	-
Calcium - Peroxide	0.005	% Ca	16	-	-	-
Calcium - Acid Reacted	0.005	% Ca	16	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	13	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	7800	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.18	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.18	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.24	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	150	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	38	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	12	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	7600	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	130	-	-	-
>2mm Fraction	0.005	g	< 0.005	-	-	-
Analysed Material	0.1	%	100	-	-	-
Extraneous Material	0.1	%	< 0.1	-	-	-

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	10	4.2	-	7.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	22	< 5	-	18
Copper	5	mg/kg	14	11	-	15
Lead	5	mg/kg	27	25	-	24
Mercury	0.1	mg/kg	0.2	< 0.1	-	0.1
Nickel	5	mg/kg	12	6.6	-	10
Zinc	5	mg/kg	64	7.1	-	39
Sample Properties						
% Moisture	1	%	13	26	33	17

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Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	67	-	-	68
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	0.6
Total PAH*	0.5	mg/kg	< 0.5	-	-	0.6
2-Fluorobiphenyl (surr.)	1	%	112	-	-	103
p-Terphenyl-d14 (surr.)	1	%	134	-	-	120

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	67	-	-	68
Toluene-d8 (surr.)	1	%	59	-	-	62
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	99	-	-	96
Tetrachloro-m-xylene (surr.)	1	%	101	-	-	91
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Coumaphos	2	mg/kg	< 2	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	-	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	-	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	-	-	< 0.2

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	-	-	< 0.2
EPN	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Monocrotophos	2	mg/kg	< 2	-	-	< 2
Naled	0.2	mg/kg	< 0.2	-	-	< 0.2
Omethoate	2	mg/kg	< 2	-	-	< 2
Phorate	0.2	mg/kg	< 0.2	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	96	-	-	99
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	99	-	-	96
Tetrachloro-m-xylene (surr.)	1	%	101	-	-	91
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	40
13C5-PFPeA (surr.)	1	%	-	-	-	59

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFHxA (surr.)	1	%	-	-	-	63
13C4-PFHpA (surr.)	1	%	-	-	-	68
13C8-PFOA (surr.)	1	%	-	-	-	62
13C5-PFNA (surr.)	1	%	-	-	-	71
13C6-PFDA (surr.)	1	%	-	-	-	62
13C2-PFUnDA (surr.)	1	%	-	-	-	59
13C2-PFDoDA (surr.)	1	%	-	-	-	69
13C2-PFTeDA (surr.)	1	%	-	-	-	81
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	97
D3-N-MeFOSA (surr.)	1	%	-	-	-	81
D5-N-EtFOSA (surr.)	1	%	-	-	-	102
D7-N-MeFOSE (surr.)	1	%	-	-	-	54
D9-N-EtFOSE (surr.)	1	%	-	-	-	68
D5-N-EtFOSAA (surr.)	1	%	-	-	-	94
D3-N-MeFOSAA (surr.)	1	%	-	-	-	77
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	65
18O2-PFHxS (surr.)	1	%	-	-	-	60
13C8-PFOS (surr.)	1	%	-	-	-	75
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	59
13C2-6:2 FTSA (surr.)	1	%	-	-	-	64
13C2-8:2 FTSA (surr.)	1	%	-	-	-	82
13C2-10:2 FTSA (surr.)	1	%	-	-	-	59

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	12	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	12	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.16	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.20	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.047	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	29	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	1.1	-
Calcium - Peroxide	0.005	% Ca	-	-	28	-
Calcium - Acid Reacted	0.005	% Ca	-	-	27	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	21	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	13000	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	< 0.005	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.14	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.14	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.18	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	110	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	79	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	25	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	16000	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-

eurofins | Environment Testing

Client Sample ID			SB113_0.8-1.0	SB113_2.3-2.5	SB113_2.8-3.0	SB114_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002405	M23-Jn0002406	M23-Jn0002407	M23-Jn0002408
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	140	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-

Client Sample ID			SB114_0.3-0.5	SB114_1.5-1.8	SB114_2.8-3.0	SB122_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002409	M23-Jn0002410	M23-Jn0002411	M23-Jn0002412
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	3.2	-	4.9
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	12	-	14
Copper	5	mg/kg	-	20	-	9.6
Lead	5	mg/kg	-	6.5	-	14
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	18	-	8.1
Zinc	5	mg/kg	-	16	-	32
Sample Properties						
% Moisture	1	%	13	20	33	15
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	69
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB114_0.3-0.5	SB114_1.5-1.8	SB114_2.8-3.0	SB122_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002409	M23-Jn0002410	M23-Jn0002411	M23-Jn0002412
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	89
p-Terphenyl-d14 (surr.)	1	%	-	-	-	79
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	12	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	12	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.12	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.15	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.034	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	21	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.75	-
Calcium - Peroxide	0.005	% Ca	-	-	27	-
Calcium - Acid Reacted	0.005	% Ca	-	-	26	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	21	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	13000	-

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Client Sample ID			SB114_0.3-0.5	SB114_1.5-1.8	SB114_2.8-3.0	SB122_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002409	M23-Jn0002410	M23-Jn0002411	M23-Jn0002412
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	< 0.005	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.15	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.15	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.20	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	120	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	75	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	24	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	15000	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	150	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	< 1.25	-	-
Dibutyltin	1	mg/kg	< 1	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Monobutyltin	0.75	mg/kg	< 0.75	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	101	54	-	-
Cyanide (total)	5	mg/kg	< 5	< 5	-	-

Client Sample ID			SB123_0.0-0.2	SB123_0.8-1.0	SB125_0.0-0.2	SB125_2.4-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002413	M23-Jn0002414	M23-Jn0002415	M23-Jn0002416
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	5.8	< 2
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	13	< 5
Copper	5	mg/kg	-	-	10	16
Lead	5	mg/kg	-	-	9.4	< 5
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	11	< 5
Zinc	5	mg/kg	-	-	20	< 5

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Client Sample ID			SB123_0.0-0.2	SB123_0.8-1.0	SB125_0.0-0.2	SB125_2.4-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002413	M23-Jn0002414	M23-Jn0002415	M23-Jn0002416
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	16	15	7.7	25
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	73	62
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	73	96
p-Terphenyl-d14 (surr.)	1	%	-	-	61	75

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Client Sample ID			SB123_0.0-0.2	SB123_0.8-1.0	SB125_0.0-0.2	SB125_2.4-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002413	M23-Jn0002414	M23-Jn0002415	M23-Jn0002416
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	37	-	99	-
13C5-PFPeA (surr.)	1	%	54	-	101	-
13C5-PFHxA (surr.)	1	%	50	-	114	-
13C4-PFHpA (surr.)	1	%	65	-	113	-
13C8-PFOA (surr.)	1	%	95	-	107	-
13C5-PFNA (surr.)	1	%	97	-	113	-
13C6-PFDA (surr.)	1	%	120	-	119	-
13C2-PFUnDA (surr.)	1	%	67	-	103	-
13C2-PFDoDA (surr.)	1	%	73	-	112	-
13C2-PFTeDA (surr.)	1	%	82	-	110	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	110	-	83	-
D3-N-MeFOSA (surr.)	1	%	87	-	93	-
D5-N-EtFOSA (surr.)	1	%	99	-	98	-
D7-N-MeFOSE (surr.)	1	%	68	-	91	-
D9-N-EtFOSE (surr.)	1	%	77	-	89	-
D5-N-EtFOSAA (surr.)	1	%	81	-	122	-
D3-N-MeFOSAA (surr.)	1	%	71	-	124	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	-

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Client Sample ID			SB123_0.0-0.2	SB123_0.8-1.0	SB125_0.0-0.2	SB125_2.4-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002413	M23-Jn0002414	M23-Jn0002415	M23-Jn0002416
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	80	-	120	-
18O2-PFHxS (surr.)	1	%	88	-	105	-
13C8-PFOS (surr.)	1	%	120	-	110	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	45	-	96	-
13C2-6:2 FTSA (surr.)	1	%	77	-	106	-
13C2-8:2 FTSA (surr.)	1	%	103	-	120	-
13C2-10:2 FTSA (surr.)	1	%	64	-	115	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.2	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.1	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.089	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.34	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.25	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	160	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.26	-	-
Calcium - Peroxide	0.005	% Ca	-	6.5	-	-
Calcium - Acid Reacted	0.005	% Ca	-	6.2	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	5.0	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	3100	-	-

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Client Sample ID			SB123_0.0-0.2	SB123_0.8-1.0	SB125_0.0-0.2	SB125_2.4-2.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002413	M23-Jn0002414	M23-Jn0002415	M23-Jn0002416
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.037	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.27	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.23	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.31	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	190	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	14	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	4.3	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	2700	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	150	-	-
>2mm Fraction	0.005	g	-	11	-	-
Analysed Material	0.1	%	-	93	-	-
Extraneous Material	0.1	%	-	7.2	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	97
Cyanide (total)	5	mg/kg	-	-	-	< 5

Client Sample ID			SB125_2.8-3.0	SB130_2.7-3.0	SB131_0.0-0.2	SB131_1.3-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002417	M23-Jn0002418	M23-Jn0002419	M23-Jn0002420
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	2.1	-	-
Cadmium	0.4	mg/kg	-	0.6	-	-
Chromium	5	mg/kg	-	< 5	-	-
Copper	5	mg/kg	-	13	-	-
Lead	5	mg/kg	-	31	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	6.4	-	-
Zinc	5	mg/kg	-	7.3	-	-

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Client Sample ID			SB125_2.8-3.0	SB130_2.7-3.0	SB131_0.0-0.2	SB131_1.3-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002417	M23-Jn0002418	M23-Jn0002419	M23-Jn0002420
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	30	28	16	19
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	26	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	62	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	94	-	-
p-Terphenyl-d14 (surr.)	1	%	-	76	-	-

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Client Sample ID			SB125_2.8-3.0	SB130_2.7-3.0	SB131_0.0-0.2	SB131_1.3-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002417	M23-Jn0002418	M23-Jn0002419	M23-Jn0002420
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	< 5
13C4-PFBA (surr.)	1	%	-	-	37	64
13C5-PFPeA (surr.)	1	%	-	-	73	81
13C5-PFHxA (surr.)	1	%	-	-	79	69
13C4-PFHpA (surr.)	1	%	-	-	75	57
13C8-PFOA (surr.)	1	%	-	-	79	40
13C5-PFNA (surr.)	1	%	-	-	78	50
13C6-PFDA (surr.)	1	%	-	-	74	70
13C2-PFUnDA (surr.)	1	%	-	-	55	59
13C2-PFDoDA (surr.)	1	%	-	-	70	63
13C2-PFTeDA (surr.)	1	%	-	-	78	75
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	< 10
13C8-FOSA (surr.)	1	%	-	-	63	88
D3-N-MeFOSA (surr.)	1	%	-	-	78	75
D5-N-EtFOSA (surr.)	1	%	-	-	79	100
D7-N-MeFOSE (surr.)	1	%	-	-	77	47
D9-N-EtFOSE (surr.)	1	%	-	-	67	61
D5-N-EtFOSAA (surr.)	1	%	-	-	58	62
D3-N-MeFOSAA (surr.)	1	%	-	-	60	48
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	< 5

eurofins | Environment Testing

Client Sample ID			SB125_2.8-3.0	SB130_2.7-3.0	SB131_0.0-0.2	SB131_1.3-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002417	M23-Jn0002418	M23-Jn0002419	M23-Jn0002420
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	-	68	67
18O2-PFHxS (surr.)	1	%	-	-	64	38
13C8-PFOS (surr.)	1	%	-	-	52	115
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	63	58
13C2-6:2 FTSA (surr.)	1	%	-	-	81	53
13C2-8:2 FTSA (surr.)	1	%	-	-	92	51
13C2-10:2 FTSA (surr.)	1	%	-	-	85	58
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	12	12	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	10	12	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.34	0.12	-	-
Peroxide Extractable Sulfur	0.005	% S	0.41	0.12	-	-
HCl Extractable Sulfur	0.005	% S	N/A	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.069	< 0.005	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	43	< 2	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	1.2	1.0	-	-
Calcium - Peroxide	0.005	% Ca	29	38	-	-
Calcium - Acid Reacted	0.005	% Ca	28	37	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	22	29	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	14000	18000	-	-

eurofins | Environment Testing

Client Sample ID			SB125_2.8-3.0	SB130_2.7-3.0	SB131_0.0-0.2	SB131_1.3-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002417	M23-Jn0002418	M23-Jn0002419	M23-Jn0002420
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	< 0.005	-	-
Magnesium - Peroxide	0.005	% Mg	0.29	0.094	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.29	0.094	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.38	0.12	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	240	77	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	64	85	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	21	27	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	13000	17000	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	89	140	-	-
>2mm Fraction	0.005	g	< 0.005	< 0.005	-	-
Analysed Material	0.1	%	100	100	-	-
Extraneous Material	0.1	%	< 0.1	< 0.1	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	95	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-

Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.9	7.4	8.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	< 5	38	6.7	8.5
Copper	5	mg/kg	10	19	13	44
Lead	5	mg/kg	< 5	24	6.5	65
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	17	< 5	7.9
Zinc	5	mg/kg	< 5	36	7.7	110

eurofins | Environment Testing

Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	21	27	32	13
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	52	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	52	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	57	52	70	63
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	102	65	89	62
p-Terphenyl-d14 (surr.)	1	%	99	70	102	77

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Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	63
Toluene-d8 (surr.)	1	%	-	-	-	74
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	140
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2

eurofins | Environment Testing

Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	95
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	89
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	140
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	13	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	12	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.27	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.33	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-

eurofins | Environment Testing

Client Sample ID			SB131_1.5-1.8	SB131_2.8-3.0	SB132_2.7-3.0	SB133_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002421	M23-Jn0002422	M23-Jn0002423	M23-Jn0002424
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.065	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	40	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	2.1	-	-
Calcium - Peroxide	0.005	% Ca	-	26	-	-
Calcium - Acid Reacted	0.005	% Ca	-	24	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	19	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	12000	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	< 0.005	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.16	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.16	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.21	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	130	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	60	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	19	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	12000	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	120	-	-
>2mm Fraction	0.005	g	-	< 0.005	-	-
Analysed Material	0.1	%	-	100	-	-
Extraneous Material	0.1	%	-	< 0.1	-	-
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	101	-	90	-
Cyanide (total)	5	mg/kg	< 5	-	< 5	-

eurofins | Environment Testing

Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.0	-	7.4	-
Cadmium	0.4	mg/kg	0.7	-	< 0.4	-
Chromium	5	mg/kg	< 5	-	21	-
Copper	5	mg/kg	8.6	-	13	-
Lead	5	mg/kg	26	-	20	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	5.3	-	11	-
Zinc	5	mg/kg	14	-	46	-
Sample Properties						
% Moisture	1	%	35	27	14	28
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	52	-	82	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	80	-	77	-
p-Terphenyl-d14 (surr.)	1	%	118	-	84	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	82	-
Toluene-d8 (surr.)	1	%	-	-	68	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	105	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	112	-

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Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	56	-
13C5-PFPeA (surr.)	1	%	-	-	85	-
13C5-PFHxA (surr.)	1	%	-	-	88	-
13C4-PFHpA (surr.)	1	%	-	-	83	-
13C8-PFOA (surr.)	1	%	-	-	86	-
13C5-PFNA (surr.)	1	%	-	-	86	-
13C6-PFDA (surr.)	1	%	-	-	83	-
13C2-PFUnDA (surr.)	1	%	-	-	58	-
13C2-PFDoDA (surr.)	1	%	-	-	77	-
13C2-PFTeDA (surr.)	1	%	-	-	84	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	65	-
D3-N-MeFOSA (surr.)	1	%	-	-	88	-
D5-N-EtFOSA (surr.)	1	%	-	-	87	-
D7-N-MeFOSE (surr.)	1	%	-	-	81	-
D9-N-EtFOSE (surr.)	1	%	-	-	76	-
D5-N-EtFOSAA (surr.)	1	%	-	-	75	-
D3-N-MeFOSAA (surr.)	1	%	-	-	76	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-

eurofins | Environment Testing

Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	-	72	-
18O2-PFHxS (surr.)	1	%	-	-	69	-
13C8-PFOS (surr.)	1	%	-	-	62	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	83	-
13C2-6:2 FTSA (surr.)	1	%	-	-	80	-
13C2-8:2 FTSA (surr.)	1	%	-	-	101	-
13C2-10:2 FTSA (surr.)	1	%	-	-	93	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	13	-	9.7
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	12	-	8.5
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.17	-	0.096
Peroxide Extractable Sulfur	0.005	% S	-	0.22	-	0.20
HCl Extractable Sulfur	0.005	% S	-	N/A	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.047	-	0.11
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	30	-	66
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	3.7	-	0.24
Calcium - Peroxide	0.005	% Ca	-	29	-	22
Calcium - Acid Reacted	0.005	% Ca	-	26	-	22
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	20	-	18
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	13000	-	11000

eurofins | Environment Testing

Client Sample ID			SB133_2.3-2.5	SB133_2.8-3.0	SB163_0.0-0.2	SB163_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002425	M23-Jn0002426	M23-Jn0002427	M23-Jn0002428
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	< 0.005	-	0.077
Magnesium - Peroxide	0.005	% Mg	-	0.16	-	0.49
Magnesium - Acid Reacted	0.005	% Mg	-	0.16	-	0.41
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.21	-	0.54
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	130	-	340
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	67	-	52
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	21	-	17
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	13000	-	10000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	170	-	110
>2mm Fraction	0.005	g	-	< 0.005	-	0.70
Analysed Material	0.1	%	-	100	-	99
Extraneous Material	0.1	%	-	< 0.1	-	0.7

Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	37	5.0	2.9	12
Cadmium	0.4	mg/kg	11	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	29	12	26
Copper	5	mg/kg	27	18	8.4	12
Lead	5	mg/kg	270	23	< 5	18
Mercury	0.1	mg/kg	0.3	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	14	9.6	14
Zinc	5	mg/kg	180	58	9.6	39
Sample Properties						
% Moisture	1	%	44	13	16	21
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50

eurofins | Environment Testing

Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	75	-	69
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	103	-	75
p-Terphenyl-d14 (surr.)	1	%	-	70	-	94
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5

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Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	75	-	69
Toluene-d8 (surr.)	1	%	-	68	-	64

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Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	146	-	133
Tetrachloro-m-xylene (surr.)	1	%	-	113	-	88
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2

eurofins | Environment Testing

Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	112
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	133
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	88
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	73
13C5-PFPeA (surr.)	1	%	-	-	-	97
13C5-PFHxA (surr.)	1	%	-	-	-	98
13C4-PFHpA (surr.)	1	%	-	-	-	92
13C8-PFOA (surr.)	1	%	-	-	-	93
13C5-PFNA (surr.)	1	%	-	-	-	91
13C6-PFDA (surr.)	1	%	-	-	-	85
13C2-PFUnDA (surr.)	1	%	-	-	-	60
13C2-PFDoDA (surr.)	1	%	-	-	-	83
13C2-PFTeDA (surr.)	1	%	-	-	-	97

eurofins | Environment Testing

Client Sample ID			SB164_0.7-1.0	SB165_0.0-0.3	SB165_0.7-1.0	SB166_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002429	M23-Jn0002430	M23-Jn0002431	M23-Jn0002432
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	70
D3-N-MeFOSA (surr.)	1	%	-	-	-	92
D5-N-EtFOSA (surr.)	1	%	-	-	-	97
D7-N-MeFOSE (surr.)	1	%	-	-	-	88
D9-N-EtFOSE (surr.)	1	%	-	-	-	83
D5-N-EtFOSAA (surr.)	1	%	-	-	-	102
D3-N-MeFOSAA (surr.)	1	%	-	-	-	91
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	80
18O2-PFHxS (surr.)	1	%	-	-	-	72
13C8-PFOS (surr.)	1	%	-	-	-	54
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	99
13C2-6:2 FTSA (surr.)	1	%	-	-	-	87
13C2-8:2 FTSA (surr.)	1	%	-	-	-	80
13C2-10:2 FTSA (surr.)	1	%	-	-	-	100
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

eurofins | Environment Testing

Client Sample ID			SB166_0.8-1.0	SB173_0.0-0.2	SB173_1.8-2.0	SB174_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002433	M23-Jn0002434	M23-Jn0002435	M23-Jn0002436
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.6	-	3.2	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	7.0	-	6.6	-
Copper	5	mg/kg	12	-	20	-
Lead	5	mg/kg	7.7	-	5.4	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	8.5	-	12	-
Zinc	5	mg/kg	18	-	10	-
Sample Properties						
% Moisture	1	%	26	14	25	14
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	36	-	34
13C5-PFPeA (surr.)	1	%	-	57	-	56
13C5-PFHxA (surr.)	1	%	-	55	-	54
13C4-PFHpA (surr.)	1	%	-	64	-	62
13C8-PFOA (surr.)	1	%	-	54	-	57
13C5-PFNA (surr.)	1	%	-	61	-	62
13C6-PFDA (surr.)	1	%	-	52	-	47
13C2-PFUnDA (surr.)	1	%	-	46	-	48
13C2-PFDoDA (surr.)	1	%	-	54	-	55
13C2-PFTeDA (surr.)	1	%	-	70	-	69
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	80	-	68
D3-N-MeFOSA (surr.)	1	%	-	66	-	62
D5-N-EtFOSA (surr.)	1	%	-	84	-	83
D7-N-MeFOSE (surr.)	1	%	-	46	-	43
D9-N-EtFOSE (surr.)	1	%	-	56	-	55

eurofins | Environment Testing

Client Sample ID			SB166_0.8-1.0	SB173_0.0-0.2	SB173_1.8-2.0	SB174_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002433	M23-Jn0002434	M23-Jn0002435	M23-Jn0002436
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSAA (surr.)	1	%	-	80	-	83
D3-N-MeFOSAA (surr.)	1	%	-	61	-	65
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	58	-	54
18O2-PFHxS (surr.)	1	%	-	54	-	51
13C8-PFOS (surr.)	1	%	-	60	-	64
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	49	-	48
13C2-6:2 FTSA (surr.)	1	%	-	50	-	53
13C2-8:2 FTSA (surr.)	1	%	-	69	-	63
13C2-10:2 FTSA (surr.)	1	%	-	50	-	45
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	9.9	-	9.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.1	8.6	-	8.9
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	< 2	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	3.9	0.12	-	0.10
Peroxide Extractable Sulfur	0.005	% S	3.6	0.21	-	0.15
HCl Extractable Sulfur	0.005	% S	N/A	N/A	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	< 0.005	0.085	-	0.050
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	< 2	53	-	31

eurofins | Environment Testing

Client Sample ID			SB166_0.8-1.0	SB173_0.0-0.2	SB173_1.8-2.0	SB174_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002433	M23-Jn0002434	M23-Jn0002435	M23-Jn0002436
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	5.5	0.30	-	0.26
Calcium - Peroxide	0.005	% Ca	21	7.2	-	6.0
Calcium - Acid Reacted	0.005	% Ca	16	6.9	-	5.7
Calcium - Acid Reacted (s-aCa)	0.005	% S	13	5.5	-	4.6
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	7900	3400	-	2900
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	0.027	-	0.027
Magnesium - Peroxide	0.005	% Mg	0.43	0.32	-	0.24
Magnesium - Acid Reacted	0.005	% Mg	0.43	0.29	-	0.21
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.56	0.38	-	0.28
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	350	240	-	170
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	38	20	-	17
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	12	6.4	-	5.4
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	7600	4000	-	3400
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	1.5	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	< 10	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	< 0.02	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	160	120	-	160
>2mm Fraction	0.005	g	1.5	27	-	3.9
Analysed Material	0.1	%	99	81	-	98
Extraneous Material	0.1	%	0.9	19	-	2.5
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	102	-
Cyanide (total)	5	mg/kg	-	-	< 5	-

eurofins | Environment Testing

Client Sample ID			SB174_1.3-1.5	SB174_1.7-1.9	SB174_2.7-3.0	DUP12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002437	M23-Jn0002438	M23-Jn0002439	M23-Jn0002440
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	19	3.9	-	6.1
Cadmium	0.4	mg/kg	0.6	1.0	-	< 0.4
Chromium	5	mg/kg	22	6.3	-	16
Copper	5	mg/kg	31	15	-	10
Iron	20	mg/kg	-	-	3400	-
Lead	5	mg/kg	43	34	-	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	15	7.3	-	8.8
Zinc	5	mg/kg	180	35	-	36
Sample Properties						
% Moisture	1	%	13	29	60	16
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	79	-	-	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5

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Client Sample ID			SB174_1.3-1.5	SB174_1.7-1.9	SB174_2.7-3.0	DUP12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002437	M23-Jn0002438	M23-Jn0002439	M23-Jn0002440
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	52	-	-	78
p-Terphenyl-d14 (surr.)	1	%	71	-	-	64
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-

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Client Sample ID			SB174_1.3-1.5	SB174_1.7-1.9	SB174_2.7-3.0	DUP12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002437	M23-Jn0002438	M23-Jn0002439	M23-Jn0002440
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	79	-	-	-
Toluene-d8 (surr.)	1	%	72	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	138	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-

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Client Sample ID			SB174_1.3-1.5	SB174_1.7-1.9	SB174_2.7-3.0	DUP12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002437	M23-Jn0002438	M23-Jn0002439	M23-Jn0002440
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	146	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	138	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-

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Client Sample ID			SB174_1.3-1.5	SB174_1.7-1.9	SB174_2.7-3.0	DUP12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0002437	M23-Jn0002438	M23-Jn0002439	M23-Jn0002440
Date Sampled			May 30, 2023	May 30, 2023	May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	99	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
% Clay	1	%	-	-	11	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	8600	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	12	-
Total Organic Carbon	0.1	%	-	-	13	-
Heavy Metals						
Iron (%)	0.01	%	-	-	0.34	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	130	-

Client Sample ID			DUP14
Sample Matrix			Soil
Eurofins Sample No.			M23-Jn0002441
Date Sampled			May 30, 2023
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	3.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	12
Copper	5	mg/kg	8.7
Lead	5	mg/kg	< 5
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	8.3
Zinc	5	mg/kg	13
Sample Properties			
% Moisture	1	%	16

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 02, 2023	28 Days
- Method:			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
NEPM Screen for Soil Classification			
Heavy Metals	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Clay	Brisbane	Jun 11, 2023	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Volatile Organics	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Organotins	Melbourne	Jun 06, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Cyanide (total)	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Description	Testing Site	Extracted	Holding Time
PFASs Summations	Melbourne	Jun 01, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 14, 2023	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 14, 2023	6 Week
- Method: LTM-GEN-7050/7070			

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Project ID: 64648

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Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	SB90_0.0-0.2	May 30, 2023		Soil	M23-Jn0002377					X				X					
2	SB91_0.0-0.2	May 30, 2023		Soil	M23-Jn0002378									X		X			
3	SB91_0.6-0.8	May 30, 2023		Soil	M23-Jn0002379					X				X					
4	SB92_0.8-1.0	May 30, 2023		Soil	M23-Jn0002380					X				X					
5	SB95_0.9-1.0	May 30, 2023		Soil	M23-Jn0002381					X				X					
6	SB96_0.5-0.7	May 30, 2023		Soil	M23-Jn0002382									X		X			
7	SB97_0.7-1.0	May 30, 2023		Soil	M23-Jn0002383				X		X	X		X		X			
8	SB98_0.4-0.6	May 30, 2023		Soil	M23-Jn0002384									X		X			
9	SB99_0.0-0.2	May 30, 2023		Soil	M23-Jn0002385					X				X					
10	SB101_0.0-0.3	May 30, 2023		Soil	M23-Jn0002386					X				X					
11	SB102_0.0-0.3	May 30, 2023		Soil	M23-Jn0002387									X				X	
12	SB102_0.8-1.0	May 30, 2023		Soil	M23-Jn0002388								X	X					

Eurofins Environment Testing Australia Pty Ltd
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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
13	SB103_0.8-1.0	May 30, 2023		Soil	M23-Jn0002389					X				X					
14	SB107_0.0-0.2	May 30, 2023		Soil	M23-Jn0002390					X			X	X				X	
15	SB107_2.2-2.4	May 30, 2023		Soil	M23-Jn0002391	X				X				X					X
16	SB108_0.0-0.2	May 30, 2023		Soil	M23-Jn0002392					X			X	X				X	
17	SB108_0.8-1.0	May 30, 2023		Soil	M23-Jn0002393				X		X	X		X		X			
18	SB108_2.1-2.3	May 30, 2023		Soil	M23-Jn0002394					X				X					
19	SB108_2.8-3.0	May 30, 2023		Soil	M23-Jn0002395	X				X				X					X
20	SB109_0.0-0.2	May 30, 2023		Soil	M23-Jn0002396								X	X				X	
21	SB109_0.8-1.0	May 30, 2023		Soil	M23-Jn0002397	X				X				X					X
22	SB109_2.8-3.0	May 30, 2023		Soil	M23-Jn0002398									X				X	
23	SB110_0.9-1.1	May 30, 2023		Soil	M23-Jn0002399				X		X	X		X		X			
24	SB110_2.1-2.3	May 30, 2023		Soil	M23-Jn0002400					X				X					
25	SB110_2.7-3.0	May 30, 2023		Soil	M23-Jn0002401								X	X					
26	SB112_1.5-1.8	May 30, 2023		Soil	M23-Jn0002402			X				X		X		X			
27	SB112_1.9-2.2	May 30, 2023		Soil	M23-Jn0002403					X				X					

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
28	SB113_0.0-0.2	May 30, 2023		Soil	M23-Jn0002404									X				X	
29	SB113_0.8-1.0	May 30, 2023		Soil	M23-Jn0002405				X		X	X		X		X			
30	SB113_2.3-2.5	May 30, 2023		Soil	M23-Jn0002406					X				X					
31	SB113_2.8-3.0	May 30, 2023		Soil	M23-Jn0002407								X	X					
32	SB114_0.0-0.2	May 30, 2023		Soil	M23-Jn0002408				X		X	X		X		X		X	
33	SB114_0.3-0.5	May 30, 2023		Soil	M23-Jn0002409	X								X					X
34	SB114_1.5-1.8	May 30, 2023		Soil	M23-Jn0002410	X				X				X					X
35	SB114_2.8-3.0	May 30, 2023		Soil	M23-Jn0002411								X	X					
36	SB122_0.0-0.2	May 30, 2023		Soil	M23-Jn0002412									X		X			
37	SB123_0.0-0.2	May 30, 2023		Soil	M23-Jn0002413									X				X	
38	SB123_0.8-1.0	May 30, 2023		Soil	M23-Jn0002414								X	X					
39	SB125_0.0-0.2	May 30, 2023		Soil	M23-Jn0002415									X		X		X	
40	SB125_2.4-2.6	May 30, 2023		Soil	M23-Jn0002416	X								X		X			X
41	SB125_2.8-3.0	May 30, 2023		Soil	M23-Jn0002417								X	X					
42	SB130_2.7-3.0	May 30, 2023		Soil	M23-Jn0002418	X							X	X		X			X

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
43	SB131_0.0-0.2	May 30, 2023		Soil	M23-Jn0002419									X				X	
44	SB131_1.3-1.5	May 30, 2023		Soil	M23-Jn0002420									X				X	
45	SB131_1.5-1.8	May 30, 2023		Soil	M23-Jn0002421	X								X		X			X
46	SB131_2.8-3.0	May 30, 2023		Soil	M23-Jn0002422								X	X		X			
47	SB132_2.7-3.0	May 30, 2023		Soil	M23-Jn0002423	X								X		X			X
48	SB133_0.6-0.8	May 30, 2023		Soil	M23-Jn0002424				X		X	X		X		X			
49	SB133_2.3-2.5	May 30, 2023		Soil	M23-Jn0002425									X		X			
50	SB133_2.8-3.0	May 30, 2023		Soil	M23-Jn0002426								X	X					
51	SB163_0.0-0.2	May 30, 2023		Soil	M23-Jn0002427			X				X		X		X		X	
52	SB163_0.8-1.0	May 30, 2023		Soil	M23-Jn0002428								X	X					
53	SB164_0.7-1.0	May 30, 2023		Soil	M23-Jn0002429					X				X					
54	SB165_0.0-0.3	May 30, 2023		Soil	M23-Jn0002430			X				X		X		X			
55	SB165_0.7-1.0	May 30, 2023		Soil	M23-Jn0002431					X				X					
56	SB166_0.0-0.2	May 30, 2023		Soil	M23-Jn0002432				X		X	X		X		X		X	
57	SB166_0.8-1.0	May 30, 2023		Soil	M23-Jn0002433					X			X	X					

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
58	SB173_0.0-0.2	May 30, 2023		Soil	M23-Jn0002434								X	X				X	
59	SB173_1.8-2.0	May 30, 2023		Soil	M23-Jn0002435	X				X				X					X
60	SB174_0.0-0.2	May 30, 2023		Soil	M23-Jn0002436								X	X				X	
61	SB174_1.3-1.5	May 30, 2023		Soil	M23-Jn0002437				X		X	X		X		X			
62	SB174_1.7-1.9	May 30, 2023		Soil	M23-Jn0002438	X				X				X					X
63	SB174_2.7-3.0	May 30, 2023		Soil	M23-Jn0002439									X	X				
64	DUP12	May 30, 2023		Soil	M23-Jn0002440									X		X			
65	DUP14	May 30, 2023		Soil	M23-Jn0002441					X				X					
66	RB07	May 30, 2023		Water	M23-Jn0002442												X	X	
67	FB04	May 30, 2023		Water	M23-Jn0002443													X	
68	SB90_0.3-0.5	May 30, 2023		Soil	M23-Jn0002444		X												
69	SB90_0.7-1.0	May 30, 2023		Soil	M23-Jn0002445		X												
70	SB91_0.3-0.6	May 30, 2023		Soil	M23-Jn0002446		X												
71	SB91_0.8-1.0	May 30, 2023		Soil	M23-Jn0002447		X												
72	SB92_0.0-0.3	May 30, 2023		Soil	M23-Jn0002448		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
73	SB92_0.3-0.5	May 30, 2023		Soil	M23-Jn0002449		X												
74	SB95_0.0-0.2	May 30, 2023		Soil	M23-Jn0002450		X												
75	SB95_0.5-0.7	May 30, 2023		Soil	M23-Jn0002451		X												
76	SB96_0.0-0.2	May 30, 2023		Soil	M23-Jn0002452		X												
77	SB96_0.3-0.5	May 30, 2023		Soil	M23-Jn0002453		X												
78	SB96_0.8-1.0	May 30, 2023		Soil	M23-Jn0002454		X												
79	SB97_0.0-0.3	May 30, 2023		Soil	M23-Jn0002455		X												
80	SB97_0.3-0.5	May 30, 2023		Soil	M23-Jn0002456		X												
81	SB98_0.0-0.2	May 30, 2023		Soil	M23-Jn0002457		X												
82	SB98_0.7-1.0	May 30, 2023		Soil	M23-Jn0002458		X												
83	SB99_0.3-0.5	May 30, 2023		Soil	M23-Jn0002459		X												
84	SB99_0.7-1.0	May 30, 2023		Soil	M23-Jn0002460		X												
85	SB101_0.3-0.5	May 30, 2023		Soil	M23-Jn0002461		X												
86	SB101_0.8-1.0	May 30, 2023		Soil	M23-Jn0002462		X												
87	SB102_0.5-0.7	May 30, 2023		Soil	M23-Jn0002463		X												

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Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
88	SB103_0.0-0.2	May 30, 2023		Soil	M23-Jn0002464		X												
89	SB103_0.5-0.8	May 30, 2023		Soil	M23-Jn0002465		X												
90	SB107_0.3-0.5	May 30, 2023		Soil	M23-Jn0002466		X												
91	SB107_0.8-1.0	May 30, 2023		Soil	M23-Jn0002467		X												
92	SB107_1.5-1.7	May 30, 2023		Soil	M23-Jn0002468		X												
93	SB107_2.8-3.0	May 30, 2023		Soil	M23-Jn0002469		X												
94	SB108_0.3-0.5	May 30, 2023		Soil	M23-Jn0002470		X												
95	SB108_1.5-1.7	May 30, 2023		Soil	M23-Jn0002471		X												
96	SB109_0.3-0.5	May 30, 2023		Soil	M23-Jn0002472		X												
97	SB109_1.5-1.7	May 30, 2023		Soil	M23-Jn0002473		X												
98	SB109_2.3-2.5	May 30, 2023		Soil	M23-Jn0002474		X												
99	SB110_0.0-0.2	May 30, 2023		Soil	M23-Jn0002475		X												
100	SB110_0.4-0.6	May 30, 2023		Soil	M23-Jn0002476		X												
101	SB110_1.5-1.7	May 30, 2023		Soil	M23-Jn0002477		X												
102	SB112_0.0-0.2	May 30, 2023		Soil	M23-Jn0002478		X												

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Address: 100 Hutt St
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SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
103	SB112_0.3-0.5	May 30, 2023		Soil	M23-Jn0002479		X												
104	SB112_0.8-1.0	May 30, 2023		Soil	M23-Jn0002480		X												
105	SB112_2.7-3.0	May 30, 2023		Soil	M23-Jn0002481		X												
106	SB113_0.3-0.5	May 30, 2023		Soil	M23-Jn0002482		X												
107	SB113_1.5-1.7	May 30, 2023		Soil	M23-Jn0002483		X												
108	SB113_1.7-1.9	May 30, 2023		Soil	M23-Jn0002484		X												
109	SB114_1.0-1.2	May 30, 2023		Soil	M23-Jn0002485		X												
110	SB114_2.2-2.4	May 30, 2023		Soil	M23-Jn0002486		X												
111	SB121_0.0-0.2	May 30, 2023		Soil	M23-Jn0002487		X												
112	SB121_0.4-0.6	May 30, 2023		Soil	M23-Jn0002488		X												
113	SB121_0.7-1.0	May 30, 2023		Soil	M23-Jn0002489		X												
114	SB122_0.5-0.7	May 30, 2023		Soil	M23-Jn0002490		X												
115	SB122_0.7-1.0	May 30, 2023		Soil	M23-Jn0002491		X												
116	SB123_0.5-0.7	May 30, 2023		Soil	M23-Jn0002492		X												
117	SB124_0.0-0.3	May 30, 2023		Soil	M23-Jn0002493		X												

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Project ID: 64648

Order No.:
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Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
118	SB124_0.4-0.6	May 30, 2023		Soil	M23-Jn0002494		X												
119	SB124_0.6-0.8	May 30, 2023		Soil	M23-Jn0002495		X												
120	SB124_0.8-1.0	May 30, 2023		Soil	M23-Jn0002496		X												
121	SB125_0.3-0.5	May 30, 2023		Soil	M23-Jn0002497		X												
122	SB125_1.0-1.2	May 30, 2023		Soil	M23-Jn0002498		X												
123	SB125_1.2-1.4	May 30, 2023		Soil	M23-Jn0002499		X												
124	SB125_1.8-2.0	May 30, 2023		Soil	M23-Jn0002500		X												
125	SB130_0.0-0.2	May 30, 2023		Soil	M23-Jn0002501		X												
126	SB130_0.3-0.5	May 30, 2023		Soil	M23-Jn0002502		X												
127	SB130_0.8-1.1	May 30, 2023		Soil	M23-Jn0002503		X												
128	SB130_1.5-1.7	May 30, 2023		Soil	M23-Jn0002504		X												
129	SB130_2.2-2.4	May 30, 2023		Soil	M23-Jn0002505		X												
130	SB131_0.3-0.5	May 30, 2023		Soil	M23-Jn0002506		X												
131	SB131_1.0-1.2	May 30, 2023		Soil	M23-Jn0002507		X												
132	SB131_2.3-2.5	May 30, 2023		Soil	M23-Jn0002508		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
133	SB132_0.0-0.2	May 30, 2023		Soil	M23-Jn0002509		X												
134	SB132_0.3-0.6	May 30, 2023		Soil	M23-Jn0002510		X												
135	SB132_0.6-0.8	May 30, 2023		Soil	M23-Jn0002511		X												
136	SB132_0.9-1.1	May 30, 2023		Soil	M23-Jn0002512		X												
137	SB132_1.5-1.8	May 30, 2023		Soil	M23-Jn0002513		X												
138	SB132_2.0-2.3	May 30, 2023		Soil	M23-Jn0002514		X												
139	SB133_0.0-0.2	May 30, 2023		Soil	M23-Jn0002515		X												
140	SB133_0.3-0.5	May 30, 2023		Soil	M23-Jn0002516		X												
141	SB133_1.0-1.2	May 30, 2023		Soil	M23-Jn0002517		X												
142	SB133_1.5-1.7	May 30, 2023		Soil	M23-Jn0002518		X												
143	SB133_1.9-2.1	May 30, 2023		Soil	M23-Jn0002519		X												
144	SB163_0.4-0.6	May 30, 2023		Soil	M23-Jn0002520		X												
145	SB164_0.0-0.2	May 30, 2023		Soil	M23-Jn0002521		X												
146	SB164_0.5-0.7	May 30, 2023		Soil	M23-Jn0002522		X												
147	SB165_0.3-0.6	May 30, 2023		Soil	M23-Jn0002523		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
148	SB165_0.6-0.7	May 30, 2023		Soil	M23-Jn0002524		X												
149	SB166_0.3-0.5	May 30, 2023		Soil	M23-Jn0002525		X												
150	SB166_0.5-0.8	May 30, 2023		Soil	M23-Jn0002526		X												
151	SB173_0.4-0.6	May 30, 2023		Soil	M23-Jn0002527		X												
152	SB173_1.1-1.3	May 30, 2023		Soil	M23-Jn0002528		X												
153	SB173_2.1-2.4	May 30, 2023		Soil	M23-Jn0002529		X												
154	SB173_2.7-3.0	May 30, 2023		Soil	M23-Jn0002530		X												
155	SB174_0.3-0.6	May 30, 2023		Soil	M23-Jn0002531		X												
156	SB174_1.0-1.2	May 30, 2023		Soil	M23-Jn0002532		X												
157	SB174_1.5-1.7	May 30, 2023		Soil	M23-Jn0002533		X												
158	DUP13	May 30, 2023		Soil	M23-Jn0002534		X												
Test Counts						11	91	3	8	23	8	11	16	65	1	23	1	17	11

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Organotins							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	104			80-120	Pass	
Copper	%	105			80-120	Pass	
Iron	%	111			80-120	Pass	
Lead	%	110			80-120	Pass	
Mercury	%	120			80-120	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	107			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	80			70-130	Pass	
TRH C10-C14	%	84			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	105			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	119			70-130	Pass	
m&p-Xylenes	%	118			70-130	Pass	
Xylenes - Total*	%	119			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	77			70-130	Pass	
Anthracene	%	129			70-130	Pass	
Benz(a)anthracene	%	78			70-130	Pass	
Benzo(a)pyrene	%	81			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	89			70-130	Pass	
Benzo(k)fluoranthene	%	111			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	81			70-130	Pass	
Fluoranthene	%	94			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	89			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	74			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	86			70-130	Pass	
1.1.1-Trichloroethane	%	77			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2-Dichloroethane	%	92			70-130	Pass	
Benzene	%	88			70-130	Pass	
Ethylbenzene	%	86			70-130	Pass	
m&p-Xylenes	%	88			70-130	Pass	
Toluene	%	87			70-130	Pass	
Trichloroethene	%	81			70-130	Pass	
Xylenes - Total*	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	112			70-130	Pass	
4.4'-DDD	%	111			70-130	Pass	
4.4'-DDE	%	123			70-130	Pass	
4.4'-DDT	%	113			70-130	Pass	
a-HCH	%	106			70-130	Pass	
Aldrin	%	119			70-130	Pass	
b-HCH	%	96			70-130	Pass	
d-HCH	%	110			70-130	Pass	
Dieldrin	%	116			70-130	Pass	
Endosulfan I	%	106			70-130	Pass	
Endosulfan II	%	109			70-130	Pass	
Endosulfan sulphate	%	127			70-130	Pass	
Endrin	%	115			70-130	Pass	
Endrin aldehyde	%	121			70-130	Pass	
Endrin ketone	%	129			70-130	Pass	
g-HCH (Lindane)	%	129			70-130	Pass	
Heptachlor	%	116			70-130	Pass	
Heptachlor epoxide	%	116			70-130	Pass	
Hexachlorobenzene	%	108			70-130	Pass	
Methoxychlor	%	96			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	119			70-130	Pass	
Dimethoate	%	92			70-130	Pass	
Ethion	%	120			70-130	Pass	
Fenitrothion	%	89			70-130	Pass	
Methyl parathion	%	75			70-130	Pass	
Mevinphos	%	74			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	126			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	91			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanoic acid (PFHxA)	%	102			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	110			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	109			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	119			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	85			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	104			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	112			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	81			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	119			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	97			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	125			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	108			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	107			50-150	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	93			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	97			80-120	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	99			60-140	Pass	
Dibutyltin as Sn	%	108			60-140	Pass	
Monobutyltin as Sn	%	115			60-140	Pass	
LCS - % Recovery							
Cyanide (total)	%	105			70-130	Pass	
% Clay	%	97			70-130	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	115			70-130	Pass	
Total Organic Carbon	%	101			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Jn0012108	NCP	%	110			75-125	Pass	
Cadmium	M23-Jn0012108	NCP	%	101			75-125	Pass	
Chromium	M23-Jn0012108	NCP	%	104			75-125	Pass	
Copper	M23-Jn0012108	NCP	%	105			75-125	Pass	
Lead	M23-Jn0012108	NCP	%	108			75-125	Pass	
Mercury	M23-Jn0012108	NCP	%	117			75-125	Pass	
Nickel	M23-Jn0012108	NCP	%	112			75-125	Pass	
Zinc	M23-Jn0012108	NCP	%	107			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Jn0003613	NCP	%	97			70-130	Pass	
Acenaphthylene	M23-Jn0003613	NCP	%	89			70-130	Pass	
Anthracene	M23-Jn0003613	NCP	%	119			70-130	Pass	
Benz(a)anthracene	M23-Jn0003613	NCP	%	85			70-130	Pass	
Benzo(a)pyrene	M23-Jn0003613	NCP	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Jn0003613	NCP	%	105			70-130	Pass	
Benzo(g.h.i)perylene	M23-Jn0003613	NCP	%	105			70-130	Pass	
Benzo(k)fluoranthene	M23-Jn0003613	NCP	%	116			70-130	Pass	
Chrysene	M23-Jn0003613	NCP	%	97			70-130	Pass	
Dibenz(a.h)anthracene	M23-Jn0003613	NCP	%	127			70-130	Pass	
Fluoranthene	M23-Jn0003613	NCP	%	130			70-130	Pass	
Fluorene	M23-Jn0003613	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0003613	NCP	%	103			70-130	Pass	
Naphthalene	M23-Jn0003613	NCP	%	103			70-130	Pass	
Phenanthrene	M23-Jn0003613	NCP	%	79			70-130	Pass	
Pyrene	M23-Jn0003613	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M23-Jn0004072	NCP	%	88			70-130	Pass	
Ethion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Fenitrothion	M23-Jn0004072	NCP	%	72			70-130	Pass	
Methyl parathion	M23-Jn0004072	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M23-Jn0003587	NCP	%	120			70-130	Pass	
Aroclor-1260	M23-Jn0003587	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	B23-Jn0009452	NCP	%	92			60-140	Pass	
Dibutyltin as Sn	B23-Jn0009452	NCP	%	84			60-140	Pass	
Monobutyltin as Sn	B23-Jn0009452	NCP	%	102			60-140	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M23-Jn0004079	NCP	%	106			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Jn0002393	CP	%	105			70-130	Pass	
4.4'-DDD	M23-Jn0002393	CP	%	75			70-130	Pass	
4.4'-DDE	M23-Jn0002393	CP	%	81			70-130	Pass	
4.4'-DDT	M23-Jn0002393	CP	%	122			70-130	Pass	
a-HCH	M23-Jn0002393	CP	%	102			70-130	Pass	
Aldrin	M23-Jn0002393	CP	%	82			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	M23-Jn0002393	CP	%	83			70-130	Pass	
d-HCH	M23-Jn0002393	CP	%	81			70-130	Pass	
Dieldrin	M23-Jn0002393	CP	%	94			70-130	Pass	
Endosulfan I	M23-Jn0002393	CP	%	103			70-130	Pass	
Endosulfan II	M23-Jn0002393	CP	%	88			70-130	Pass	
Endosulfan sulphate	M23-Jn0002393	CP	%	119			70-130	Pass	
Endrin	M23-Jn0002393	CP	%	101			70-130	Pass	
Endrin aldehyde	M23-Jn0002393	CP	%	103			70-130	Pass	
Endrin ketone	M23-Jn0002393	CP	%	116			70-130	Pass	
g-HCH (Lindane)	M23-Jn0002393	CP	%	112			70-130	Pass	
Heptachlor	M23-Jn0002393	CP	%	123			70-130	Pass	
Heptachlor epoxide	M23-Jn0002393	CP	%	88			70-130	Pass	
Hexachlorobenzene	M23-Jn0002393	CP	%	106			70-130	Pass	
Methoxychlor	M23-Jn0002393	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Jn0002402	CP	%	102			70-130	Pass	
TRH C6-C10	M23-Jn0002402	CP	%	104			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Jn0002402	CP	%	85			70-130	Pass	
Toluene	M23-Jn0002402	CP	%	80			70-130	Pass	
Ethylbenzene	M23-Jn0002402	CP	%	75			70-130	Pass	
m&p-Xylenes	M23-Jn0002402	CP	%	70			70-130	Pass	
o-Xylene	M23-Jn0002402	CP	%	78			70-130	Pass	
Xylenes - Total*	M23-Jn0002402	CP	%	72			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Jn0002402	CP	%	81			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Jn0002402	CP	%	105			70-130	Pass	
1.1.1-Trichloroethane	M23-Jn0002402	CP	%	91			70-130	Pass	
1.2-Dichlorobenzene	M23-Jn0002402	CP	%	90			70-130	Pass	
1.2-Dichloroethane	M23-Jn0002402	CP	%	88			70-130	Pass	
Trichloroethene	M23-Jn0002402	CP	%	75			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-Jn0002408	CP	%	109			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0002408	CP	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Jn0002408	CP	%	94			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0002408	CP	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0002408	CP	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-Jn0002408	CP	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-Jn0002408	CP	%	106			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Jn0002408	CP	%	126			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Jn0002408	CP	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Jn0002408	CP	%	58			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Jn0002408	CP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M23-Jn0002408	CP	%	77			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Jn0002408	CP	%	109			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Jn0002408	CP	%	78			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Jn0002408	CP	%	116			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Jn0002408	CP	%	107			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Jn0002408	CP	%	118			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-Jn0002408	CP	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Jn0002408	CP	%	157			50-150	Fail	Q08
Perfluoropropanesulfonic acid (PFPrS)	M23-Jn0002408	CP	%	75			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Jn0002408	CP	%	107			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Jn0002408	CP	%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0002408	CP	%	109			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Jn0002408	CP	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Jn0002408	CP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Jn0002408	CP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Jn0002408	CP	%	108			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Jn0002412	CP	%	82			70-130	Pass	
TRH >C10-C16	M23-Jn0002412	CP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Jn0002427	CP	%	79			70-130	Pass	
TRH >C10-C16	M23-Jn0002427	CP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Jn0002432	CP	%	104			70-130	Pass	
TRH C6-C10	M23-Jn0002432	CP	%	100			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Jn0002432	CP	%	80			70-130	Pass	
Toluene	M23-Jn0002432	CP	%	90			70-130	Pass	
Ethylbenzene	M23-Jn0002432	CP	%	91			70-130	Pass	
m&p-Xylenes	M23-Jn0002432	CP	%	88			70-130	Pass	
o-Xylene	M23-Jn0002432	CP	%	88			70-130	Pass	
Xylenes - Total*	M23-Jn0002432	CP	%	88			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Jn0002432	CP	%	83			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Jn0002432	CP	%	85			70-130	Pass	
1.1.1-Trichloroethane	M23-Jn0002432	CP	%	74			70-130	Pass	
1.2-Dichlorobenzene	M23-Jn0002432	CP	%	97			70-130	Pass	
1.2-Dichloroethane	M23-Jn0002432	CP	%	103			70-130	Pass	
Trichloroethene	M23-Jn0002432	CP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	M23-Jn0010787	NCP	%	87			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002377	CP	%	14	13	9.4	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002387	CP	%	10	10.0	4.9	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Jn0004098	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Jn0004098	NCP	ug/kg	< 10	< 10	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Jn0004098	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Jn0004098	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M23-Jn0002388	CP	pH Units	9.4	9.4	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-Jn0002388	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-Jn0002388	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M23-Jn0002388	CP	pH Units	8.2	8.4	1.5	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M23-Jn0002388	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M23-Jn0002388	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M23-Jn0002388	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M23-Jn0002388	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M23-Jn0002388	CP	% S	0.016	0.017	6.7	30%	Pass	
Peroxide Extractable Sulfur	M23-Jn0002388	CP	% S	0.052	0.049	6.8	20%	Pass	
HCl Extractable Sulfur	M23-Jn0002388	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M23-Jn0002388	CP	% S	0.036	0.032	13	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M23-Jn0002388	CP	mol H+/t	23	20	13	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M23-Jn0002388	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M23-Jn0002388	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	

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Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M23-Jn0002388	CP	% Ca	0.20	0.20	2.2	30%	Pass	
Calcium - Peroxide	M23-Jn0002388	CP	% Ca	9.4	8.6	8.7	20%	Pass	
Calcium - Acid Reacted	M23-Jn0002388	CP	% Ca	9.2	8.4	8.9	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M23-Jn0002388	CP	% S	7.3	6.7	8.9	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M23-Jn0002388	CP	mol H+/t	4600	4200	8.9	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M23-Jn0002388	CP	% Mg	0.032	0.032	2.1	30%	Pass	
Magnesium - Peroxide	M23-Jn0002388	CP	% Mg	0.41	0.37	10	20%	Pass	
Magnesium - Acid Reacted	M23-Jn0002388	CP	% Mg	0.37	0.33	11	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M23-Jn0002388	CP	% S	0.49	0.44	11	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M23-Jn0002388	CP	mol H+/t	310	270	11	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M23-Jn0002388	CP	% CaCO3	21	20	3.9	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M23-Jn0002388	CP	mol H+/t	4200	4000	3.9	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M23-Jn0002388	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M23-Jn0002388	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M23-Jn0002388	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M23-Jn0002388	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Jn0002393	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Jn0002393	CP	mg/kg	< 50	57	31	30%	Fail	Q15
TRH C29-C36	M23-Jn0002393	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Jn0002393	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Jn0002393	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Jn0002393	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M23-Jn0002395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0002397	CP	mg/kg	7.2	7.0	2.1	30%	Pass	
Cadmium	M23-Jn0002397	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0002397	CP	mg/kg	15	15	<1	30%	Pass	
Copper	M23-Jn0002397	CP	mg/kg	10	10	<1	30%	Pass	
Iron	M23-Jn0002397	CP	mg/kg	13000	13000	<1	30%	Pass	
Lead	M23-Jn0002397	CP	mg/kg	7.5	7.4	1.6	30%	Pass	
Mercury	M23-Jn0002397	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0002397	CP	mg/kg	8.3	8.4	1.2	30%	Pass	
Zinc	M23-Jn0002397	CP	mg/kg	16	15	1.8	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002398	CP	%	21	22	2.1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002408	CP	%	17	17	4.8	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0002415	CP	mg/kg	5.8	4.5	25	30%	Pass	
Cadmium	M23-Jn0002415	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0002415	CP	mg/kg	13	9.9	26	30%	Pass	
Copper	M23-Jn0002415	CP	mg/kg	10	8.8	15	30%	Pass	
Iron	M23-Jn0002415	CP	mg/kg	21000	16000	22	30%	Pass	
Lead	M23-Jn0002415	CP	mg/kg	9.4	8.4	11	30%	Pass	
Mercury	M23-Jn0002415	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0002415	CP	mg/kg	11	8.9	25	30%	Pass	
Zinc	M23-Jn0002415	CP	mg/kg	20	19	3.0	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002418	CP	%	28	27	3.2	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0002418	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Jn0002418	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0002418	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0002418	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0002418	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0002418	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0002418	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0002418	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromomethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M23-Jn0002418	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M23-Jn0002418	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M23-Jn0002418	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M23-Jn0002418	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M23-Jn0002418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0002423	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Jn0002423	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0002423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0002423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0002423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0002423	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0002423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0002423	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2-Dibromoethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Jn0002423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Jn0002427	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Jn0002427	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Jn0002427	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Jn0002427	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Jn0002427	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Jn0002427	CP	mg/kg	< 100	< 100	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Jn0002427	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Jn0002427	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-Jn0002427	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Fenitrothion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-Jn0002427	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-Jn0002427	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-Jn0002427	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Jn0002427	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002428	CP	%	28	26	5.4	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M23-Jn0002428	CP	pH Units	9.7	9.7	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-Jn0002428	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M23-Jn0002428	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M23-Jn0002428	CP	pH Units	8.5	8.5	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M23-Jn0002428	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M23-Jn0002428	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M23-Jn0002428	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M23-Jn0002428	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M23-Jn0002428	CP	% S	0.096	0.10	6.1	30%	Pass	
Peroxide Extractable Sulfur	M23-Jn0002428	CP	% S	0.20	0.19	6.6	20%	Pass	
HCl Extractable Sulfur	M23-Jn0002428	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M23-Jn0002428	CP	% S	0.11	0.087	20	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M23-Jn0002428	CP	mol H+/t	66	54	20	30%	Pass	

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Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M23-Jn0002428	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M23-Jn0002428	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M23-Jn0002428	CP	% Ca	0.24	0.25	3.1	30%	Pass	
Calcium - Peroxide	M23-Jn0002428	CP	% Ca	22	22	3.0	20%	Pass	
Calcium - Acid Reacted	M23-Jn0002428	CP	% Ca	22	21	3.0	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M23-Jn0002428	CP	% S	18	17	3.0	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M23-Jn0002428	CP	mol H+/t	11000	11000	3.0	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M23-Jn0002428	CP	% Mg	0.077	0.081	5.2	30%	Pass	
Magnesium - Peroxide	M23-Jn0002428	CP	% Mg	0.49	0.43	12	20%	Pass	
Magnesium - Acid Reacted	M23-Jn0002428	CP	% Mg	0.41	0.35	16	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M23-Jn0002428	CP	% S	0.54	0.47	16	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M23-Jn0002428	CP	mol H+/t	340	290	16	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M23-Jn0002428	CP	% CaCO3	52	47	9.7	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M23-Jn0002428	CP	mol H+/t	10000	9400	9.7	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M23-Jn0002428	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M23-Jn0002428	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M23-Jn0002428	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M23-Jn0002428	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0002429	CP	mg/kg	37	41	8.8	30%	Pass	
Cadmium	M23-Jn0002429	CP	mg/kg	11	11	1.7	30%	Pass	
Chromium	M23-Jn0002429	CP	mg/kg	21	19	6.2	30%	Pass	
Copper	M23-Jn0002429	CP	mg/kg	27	22	23	30%	Pass	
Iron	M23-Jn0002429	CP	mg/kg	11000	12000	6.2	30%	Pass	
Lead	M23-Jn0002429	CP	mg/kg	270	270	2.8	30%	Pass	
Mercury	M23-Jn0002429	CP	mg/kg	0.3	0.4	19	30%	Pass	
Nickel	M23-Jn0002429	CP	mg/kg	29	24	16	30%	Pass	
Zinc	M23-Jn0002429	CP	mg/kg	180	180	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0002430	CP	mg/kg	5.0	4.6	7.7	30%	Pass	
Cadmium	M23-Jn0002430	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0002430	CP	mg/kg	29	31	7.1	30%	Pass	
Copper	M23-Jn0002430	CP	mg/kg	18	19	5.1	30%	Pass	
Iron	M23-Jn0002430	CP	mg/kg	22000	24000	8.5	30%	Pass	
Lead	M23-Jn0002430	CP	mg/kg	23	22	1.4	30%	Pass	
Mercury	M23-Jn0002430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0002430	CP	mg/kg	14	14	4.8	30%	Pass	
Zinc	M23-Jn0002430	CP	mg/kg	58	62	6.9	30%	Pass	

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Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0002438	CP	%	29	27	6.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron	M23-Jn0013400	NCP	mg/kg	26000	22000	16	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-My0080119	NCP	uS/cm	150	160	7.8	30%	Pass	
Total Organic Carbon	S23-My0078915	NCP	%	0.2	0.2	2.6	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M23-Jn0006609	NCP	meq/100g	0.85	0.92	7.8	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0002440	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Jn0002440	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0002440	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0002440	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0002440	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0002440	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0002440	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0002440	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromomethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Jn0002440	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Catherine Wilson	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-Inorganic
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **995189-W**
Project name URPS Osborne
Project ID 64648
Received Date Jun 01, 2023

Client Sample ID			**RB07**	**FB04**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M23-Jn0002442**	**M23-Jn0002443**
Date Sampled			**May 30, 2023**	**May 30, 2023**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	109	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB07	FB04
Sample Matrix			Water	Water
Eurofins Sample No.			M23-Jn0002442	M23-Jn0002443
Date Sampled			May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	43	44
13C5-PFPeA (surr.)	1	%	88	87
13C5-PFHxA (surr.)	1	%	74	74
13C4-PFHpA (surr.)	1	%	91	91
13C8-PFOA (surr.)	1	%	88	89
13C5-PFNA (surr.)	1	%	85	81
13C6-PFDA (surr.)	1	%	85	71
13C2-PFUnDA (surr.)	1	%	68	56
13C2-PFDoDA (surr.)	1	%	70	57
13C2-PFTeDA (surr.)	1	%	62	63
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	62	71
D3-N-MeFOSA (surr.)	1	%	18	28
D5-N-EtFOSA (surr.)	1	%	11	27
D7-N-MeFOSE (surr.)	1	%	58	94
D9-N-EtFOSE (surr.)	1	%	56	94
D5-N-EtFOSAA (surr.)	1	%	97	78
D3-N-MeFOSAA (surr.)	1	%	86	67
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB07	FB04
Sample Matrix			Water	Water
Eurofins Sample No.			M23-Jn0002442	M23-Jn0002443
Date Sampled			May 30, 2023	May 30, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	102	105
18O2-PFHxS (surr.)	1	%	87	87
13C8-PFOS (surr.)	1	%	84	79
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	111	107
13C2-6:2 FTSA (surr.)	1	%	103	96
13C2-8:2 FTSA (surr.)	1	%	107	94
13C2-10:2 FTSA (surr.)	1	%	80	66
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 01, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 01, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 01, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 01, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 01, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 01, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	SB90_0.0-0.2	May 30, 2023		Soil	M23-Jn0002377					X				X					
2	SB91_0.0-0.2	May 30, 2023		Soil	M23-Jn0002378									X		X			
3	SB91_0.6-0.8	May 30, 2023		Soil	M23-Jn0002379					X				X					
4	SB92_0.8-1.0	May 30, 2023		Soil	M23-Jn0002380					X				X					
5	SB95_0.9-1.0	May 30, 2023		Soil	M23-Jn0002381					X				X					
6	SB96_0.5-0.7	May 30, 2023		Soil	M23-Jn0002382									X		X			
7	SB97_0.7-1.0	May 30, 2023		Soil	M23-Jn0002383				X		X	X		X		X			
8	SB98_0.4-0.6	May 30, 2023		Soil	M23-Jn0002384									X		X			
9	SB99_0.0-0.2	May 30, 2023		Soil	M23-Jn0002385					X				X					
10	SB101_0.0-0.3	May 30, 2023		Soil	M23-Jn0002386					X				X					
11	SB102_0.0-0.3	May 30, 2023		Soil	M23-Jn0002387									X				X	
12	SB102_0.8-1.0	May 30, 2023		Soil	M23-Jn0002388								X	X					

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Company Name: JBS & G Australia (SA) P/L
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Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
13	SB103_0.8-1.0	May 30, 2023		Soil	M23-Jn0002389					X				X					
14	SB107_0.0-0.2	May 30, 2023		Soil	M23-Jn0002390					X			X	X				X	
15	SB107_2.2-2.4	May 30, 2023		Soil	M23-Jn0002391	X				X				X					X
16	SB108_0.0-0.2	May 30, 2023		Soil	M23-Jn0002392					X			X	X				X	
17	SB108_0.8-1.0	May 30, 2023		Soil	M23-Jn0002393				X		X	X		X		X			
18	SB108_2.1-2.3	May 30, 2023		Soil	M23-Jn0002394					X				X					
19	SB108_2.8-3.0	May 30, 2023		Soil	M23-Jn0002395	X				X				X					X
20	SB109_0.0-0.2	May 30, 2023		Soil	M23-Jn0002396								X	X				X	
21	SB109_0.8-1.0	May 30, 2023		Soil	M23-Jn0002397	X				X				X					X
22	SB109_2.8-3.0	May 30, 2023		Soil	M23-Jn0002398									X				X	
23	SB110_0.9-1.1	May 30, 2023		Soil	M23-Jn0002399				X		X	X		X		X			
24	SB110_2.1-2.3	May 30, 2023		Soil	M23-Jn0002400					X				X					
25	SB110_2.7-3.0	May 30, 2023		Soil	M23-Jn0002401								X	X					
26	SB112_1.5-1.8	May 30, 2023		Soil	M23-Jn0002402			X				X		X		X			
27	SB112_1.9-2.2	May 30, 2023		Soil	M23-Jn0002403					X				X					

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Address: 100 Hutt St
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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
28	SB113_0.0-0.2	May 30, 2023		Soil	M23-Jn0002404									X				X	
29	SB113_0.8-1.0	May 30, 2023		Soil	M23-Jn0002405				X		X	X		X		X			
30	SB113_2.3-2.5	May 30, 2023		Soil	M23-Jn0002406					X				X					
31	SB113_2.8-3.0	May 30, 2023		Soil	M23-Jn0002407								X	X					
32	SB114_0.0-0.2	May 30, 2023		Soil	M23-Jn0002408				X		X	X		X		X		X	
33	SB114_0.3-0.5	May 30, 2023		Soil	M23-Jn0002409	X								X					X
34	SB114_1.5-1.8	May 30, 2023		Soil	M23-Jn0002410	X				X				X					X
35	SB114_2.8-3.0	May 30, 2023		Soil	M23-Jn0002411								X	X					
36	SB122_0.0-0.2	May 30, 2023		Soil	M23-Jn0002412									X		X			
37	SB123_0.0-0.2	May 30, 2023		Soil	M23-Jn0002413									X				X	
38	SB123_0.8-1.0	May 30, 2023		Soil	M23-Jn0002414								X	X					
39	SB125_0.0-0.2	May 30, 2023		Soil	M23-Jn0002415									X		X		X	
40	SB125_2.4-2.6	May 30, 2023		Soil	M23-Jn0002416	X								X		X			X
41	SB125_2.8-3.0	May 30, 2023		Soil	M23-Jn0002417								X	X					
42	SB130_2.7-3.0	May 30, 2023		Soil	M23-Jn0002418	X							X	X		X			X

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Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
43	SB131_0.0-0.2	May 30, 2023		Soil	M23-Jn0002419									X				X	
44	SB131_1.3-1.5	May 30, 2023		Soil	M23-Jn0002420									X				X	
45	SB131_1.5-1.8	May 30, 2023		Soil	M23-Jn0002421	X								X		X			X
46	SB131_2.8-3.0	May 30, 2023		Soil	M23-Jn0002422								X	X		X			
47	SB132_2.7-3.0	May 30, 2023		Soil	M23-Jn0002423	X								X		X			X
48	SB133_0.6-0.8	May 30, 2023		Soil	M23-Jn0002424				X		X	X		X		X			
49	SB133_2.3-2.5	May 30, 2023		Soil	M23-Jn0002425									X		X			
50	SB133_2.8-3.0	May 30, 2023		Soil	M23-Jn0002426								X	X					
51	SB163_0.0-0.2	May 30, 2023		Soil	M23-Jn0002427			X				X		X		X		X	
52	SB163_0.8-1.0	May 30, 2023		Soil	M23-Jn0002428								X	X					
53	SB164_0.7-1.0	May 30, 2023		Soil	M23-Jn0002429					X				X					
54	SB165_0.0-0.3	May 30, 2023		Soil	M23-Jn0002430			X				X		X		X			
55	SB165_0.7-1.0	May 30, 2023		Soil	M23-Jn0002431					X				X					
56	SB166_0.0-0.2	May 30, 2023		Soil	M23-Jn0002432				X		X	X		X		X		X	
57	SB166_0.8-1.0	May 30, 2023		Soil	M23-Jn0002433					X			X	X					

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
58	SB173_0.0-0.2	May 30, 2023		Soil	M23-Jn0002434								X	X				X	
59	SB173_1.8-2.0	May 30, 2023		Soil	M23-Jn0002435	X				X				X					X
60	SB174_0.0-0.2	May 30, 2023		Soil	M23-Jn0002436								X	X				X	
61	SB174_1.3-1.5	May 30, 2023		Soil	M23-Jn0002437				X		X	X		X		X			
62	SB174_1.7-1.9	May 30, 2023		Soil	M23-Jn0002438	X				X				X					X
63	SB174_2.7-3.0	May 30, 2023		Soil	M23-Jn0002439									X	X				
64	DUP12	May 30, 2023		Soil	M23-Jn0002440									X		X			
65	DUP14	May 30, 2023		Soil	M23-Jn0002441					X				X					
66	RB07	May 30, 2023		Water	M23-Jn0002442												X	X	
67	FB04	May 30, 2023		Water	M23-Jn0002443													X	
68	SB90_0.3-0.5	May 30, 2023		Soil	M23-Jn0002444		X												
69	SB90_0.7-1.0	May 30, 2023		Soil	M23-Jn0002445		X												
70	SB91_0.3-0.6	May 30, 2023		Soil	M23-Jn0002446		X												
71	SB91_0.8-1.0	May 30, 2023		Soil	M23-Jn0002447		X												
72	SB92_0.0-0.3	May 30, 2023		Soil	M23-Jn0002448		X												

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Order No.:
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Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
73	SB92_0.3-0.5	May 30, 2023		Soil	M23-Jn0002449		X												
74	SB95_0.0-0.2	May 30, 2023		Soil	M23-Jn0002450		X												
75	SB95_0.5-0.7	May 30, 2023		Soil	M23-Jn0002451		X												
76	SB96_0.0-0.2	May 30, 2023		Soil	M23-Jn0002452		X												
77	SB96_0.3-0.5	May 30, 2023		Soil	M23-Jn0002453		X												
78	SB96_0.8-1.0	May 30, 2023		Soil	M23-Jn0002454		X												
79	SB97_0.0-0.3	May 30, 2023		Soil	M23-Jn0002455		X												
80	SB97_0.3-0.5	May 30, 2023		Soil	M23-Jn0002456		X												
81	SB98_0.0-0.2	May 30, 2023		Soil	M23-Jn0002457		X												
82	SB98_0.7-1.0	May 30, 2023		Soil	M23-Jn0002458		X												
83	SB99_0.3-0.5	May 30, 2023		Soil	M23-Jn0002459		X												
84	SB99_0.7-1.0	May 30, 2023		Soil	M23-Jn0002460		X												
85	SB101_0.3-0.5	May 30, 2023		Soil	M23-Jn0002461		X												
86	SB101_0.8-1.0	May 30, 2023		Soil	M23-Jn0002462		X												
87	SB102_0.5-0.7	May 30, 2023		Soil	M23-Jn0002463		X												

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
88	SB103_0.0-0.2	May 30, 2023		Soil	M23-Jn0002464		X												
89	SB103_0.5-0.8	May 30, 2023		Soil	M23-Jn0002465		X												
90	SB107_0.3-0.5	May 30, 2023		Soil	M23-Jn0002466		X												
91	SB107_0.8-1.0	May 30, 2023		Soil	M23-Jn0002467		X												
92	SB107_1.5-1.7	May 30, 2023		Soil	M23-Jn0002468		X												
93	SB107_2.8-3.0	May 30, 2023		Soil	M23-Jn0002469		X												
94	SB108_0.3-0.5	May 30, 2023		Soil	M23-Jn0002470		X												
95	SB108_1.5-1.7	May 30, 2023		Soil	M23-Jn0002471		X												
96	SB109_0.3-0.5	May 30, 2023		Soil	M23-Jn0002472		X												
97	SB109_1.5-1.7	May 30, 2023		Soil	M23-Jn0002473		X												
98	SB109_2.3-2.5	May 30, 2023		Soil	M23-Jn0002474		X												
99	SB110_0.0-0.2	May 30, 2023		Soil	M23-Jn0002475		X												
100	SB110_0.4-0.6	May 30, 2023		Soil	M23-Jn0002476		X												
101	SB110_1.5-1.7	May 30, 2023		Soil	M23-Jn0002477		X												
102	SB112_0.0-0.2	May 30, 2023		Soil	M23-Jn0002478		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
103	SB112_0.3-0.5	May 30, 2023		Soil	M23-Jn0002479		X												
104	SB112_0.8-1.0	May 30, 2023		Soil	M23-Jn0002480		X												
105	SB112_2.7-3.0	May 30, 2023		Soil	M23-Jn0002481		X												
106	SB113_0.3-0.5	May 30, 2023		Soil	M23-Jn0002482		X												
107	SB113_1.5-1.7	May 30, 2023		Soil	M23-Jn0002483		X												
108	SB113_1.7-1.9	May 30, 2023		Soil	M23-Jn0002484		X												
109	SB114_1.0-1.2	May 30, 2023		Soil	M23-Jn0002485		X												
110	SB114_2.2-2.4	May 30, 2023		Soil	M23-Jn0002486		X												
111	SB121_0.0-0.2	May 30, 2023		Soil	M23-Jn0002487		X												
112	SB121_0.4-0.6	May 30, 2023		Soil	M23-Jn0002488		X												
113	SB121_0.7-1.0	May 30, 2023		Soil	M23-Jn0002489		X												
114	SB122_0.5-0.7	May 30, 2023		Soil	M23-Jn0002490		X												
115	SB122_0.7-1.0	May 30, 2023		Soil	M23-Jn0002491		X												
116	SB123_0.5-0.7	May 30, 2023		Soil	M23-Jn0002492		X												
117	SB124_0.0-0.3	May 30, 2023		Soil	M23-Jn0002493		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
118	SB124_0.4-0.6	May 30, 2023		Soil	M23-Jn0002494		X												
119	SB124_0.6-0.8	May 30, 2023		Soil	M23-Jn0002495		X												
120	SB124_0.8-1.0	May 30, 2023		Soil	M23-Jn0002496		X												
121	SB125_0.3-0.5	May 30, 2023		Soil	M23-Jn0002497		X												
122	SB125_1.0-1.2	May 30, 2023		Soil	M23-Jn0002498		X												
123	SB125_1.2-1.4	May 30, 2023		Soil	M23-Jn0002499		X												
124	SB125_1.8-2.0	May 30, 2023		Soil	M23-Jn0002500		X												
125	SB130_0.0-0.2	May 30, 2023		Soil	M23-Jn0002501		X												
126	SB130_0.3-0.5	May 30, 2023		Soil	M23-Jn0002502		X												
127	SB130_0.8-1.1	May 30, 2023		Soil	M23-Jn0002503		X												
128	SB130_1.5-1.7	May 30, 2023		Soil	M23-Jn0002504		X												
129	SB130_2.2-2.4	May 30, 2023		Soil	M23-Jn0002505		X												
130	SB131_0.3-0.5	May 30, 2023		Soil	M23-Jn0002506		X												
131	SB131_1.0-1.2	May 30, 2023		Soil	M23-Jn0002507		X												
132	SB131_2.3-2.5	May 30, 2023		Soil	M23-Jn0002508		X												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
133	SB132_0.0-0.2	May 30, 2023		Soil	M23-Jn0002509		X												
134	SB132_0.3-0.6	May 30, 2023		Soil	M23-Jn0002510		X												
135	SB132_0.6-0.8	May 30, 2023		Soil	M23-Jn0002511		X												
136	SB132_0.9-1.1	May 30, 2023		Soil	M23-Jn0002512		X												
137	SB132_1.5-1.8	May 30, 2023		Soil	M23-Jn0002513		X												
138	SB132_2.0-2.3	May 30, 2023		Soil	M23-Jn0002514		X												
139	SB133_0.0-0.2	May 30, 2023		Soil	M23-Jn0002515		X												
140	SB133_0.3-0.5	May 30, 2023		Soil	M23-Jn0002516		X												
141	SB133_1.0-1.2	May 30, 2023		Soil	M23-Jn0002517		X												
142	SB133_1.5-1.7	May 30, 2023		Soil	M23-Jn0002518		X												
143	SB133_1.9-2.1	May 30, 2023		Soil	M23-Jn0002519		X												
144	SB163_0.4-0.6	May 30, 2023		Soil	M23-Jn0002520		X												
145	SB164_0.0-0.2	May 30, 2023		Soil	M23-Jn0002521		X												
146	SB164_0.5-0.7	May 30, 2023		Soil	M23-Jn0002522		X												
147	SB165_0.3-0.6	May 30, 2023		Soil	M23-Jn0002523		X												

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Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 995189
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 1, 2023 11:43 AM
Due: Jun 8, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Cyanide (total)	HOLD	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794													X		X				
148	SB165_0.6-0.7	May 30, 2023		Soil	M23-Jn0002524		X												
149	SB166_0.3-0.5	May 30, 2023		Soil	M23-Jn0002525		X												
150	SB166_0.5-0.8	May 30, 2023		Soil	M23-Jn0002526		X												
151	SB173_0.4-0.6	May 30, 2023		Soil	M23-Jn0002527		X												
152	SB173_1.1-1.3	May 30, 2023		Soil	M23-Jn0002528		X												
153	SB173_2.1-2.4	May 30, 2023		Soil	M23-Jn0002529		X												
154	SB173_2.7-3.0	May 30, 2023		Soil	M23-Jn0002530		X												
155	SB174_0.3-0.6	May 30, 2023		Soil	M23-Jn0002531		X												
156	SB174_1.0-1.2	May 30, 2023		Soil	M23-Jn0002532		X												
157	SB174_1.5-1.7	May 30, 2023		Soil	M23-Jn0002533		X												
158	DUP13	May 30, 2023		Soil	M23-Jn0002534		X												
Test Counts						11	91	3	8	23	8	11	16	65	1	23	1	17	11

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	121			70-130	Pass	
TRH C6-C10	%	81			70-130	Pass	
TRH >C10-C16	%	126			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	86			70-130	Pass	
Toluene	%	77			70-130	Pass	
Ethylbenzene	%	85			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Xylenes - Total*	%	87			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	79			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	92			80-120	Pass	
Chromium	%	94			80-120	Pass	
Copper	%	90			80-120	Pass	
Lead	%	84			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	91			80-120	Pass	
Zinc	%	96			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	91			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	76			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	77			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	77			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	77			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	75			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	%	74			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	54			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	74			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	106			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	86			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	110			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	83			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	78			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	71			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	84			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	86			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	82			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-My0076678	NCP	%	116			70-130	Pass	
TRH C10-C14	M23-Jn0003703	NCP	%	106			70-130	Pass	
TRH C6-C10	M23-My0076678	NCP	%	110			70-130	Pass	
TRH >C10-C16	M23-Jn0003703	NCP	%	110			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-My0076678	NCP	%	107			70-130	Pass	
Toluene	M23-My0076678	NCP	%	125			70-130	Pass	
Ethylbenzene	M23-My0076678	NCP	%	102			70-130	Pass	
m&p-Xylenes	M23-My0076678	NCP	%	103			70-130	Pass	
o-Xylene	M23-My0076678	NCP	%	102			70-130	Pass	
Xylenes - Total*	M23-My0076678	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-My0076678	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	W23-My0077489	NCP	%	91			75-125	Pass	
Cadmium	W23-My0077489	NCP	%	89			75-125	Pass	
Chromium	W23-My0077489	NCP	%	92			75-125	Pass	
Copper	W23-My0077489	NCP	%	89			75-125	Pass	
Lead	W23-My0077489	NCP	%	86			75-125	Pass	
Mercury	W23-My0077489	NCP	%	86			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	W23-My0077489	NCP	%	90			75-125	Pass	
Zinc	W23-My0077489	NCP	%	93			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-My0070028	NCP	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-My0070028	NCP	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0070028	NCP	%	80			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-My0070028	NCP	%	93			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-My0070028	NCP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-My0070028	NCP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0070028	NCP	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0070028	NCP	%	115			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0070028	NCP	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0070028	NCP	%	63			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0070028	NCP	%	105			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-My0070028	NCP	%	65			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0070028	NCP	%	96			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0070028	NCP	%	67			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0070028	NCP	%	147			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0070028	NCP	%	103			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0070028	NCP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0070028	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-My0070028	NCP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0070028	NCP	%	74			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0070028	NCP	%	61			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0070028	NCP	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0070028	NCP	%	91			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0070028	NCP	%	82			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-My0073338	NCP	%	105			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0070028	NCP	%	57			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0070028	NCP	%	77			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0070028	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0070028	NCP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0070028	NCP	%	104			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	B23-My0076271	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M23-Jn0007628	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M23-Jn0007628	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M23-Jn0007628	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	B23-My0076271	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M23-Jn0007628	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M23-Jn0007628	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M23-Jn0007628	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	B23-My0076271	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	B23-My0076271	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	B23-My0076271	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	B23-My0076271	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	B23-My0076271	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	B23-My0076271	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	B23-My0076271	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	W23-My0077489	NCP	mg/L	0.002	0.002	3.4	30%	Pass	
Cadmium	W23-My0077489	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	W23-My0077489	NCP	mg/L	0.001	0.002	8.6	30%	Pass	
Copper	W23-My0077489	NCP	mg/L	0.003	0.003	1.2	30%	Pass	
Lead	W23-My0077489	NCP	mg/L	0.003	0.003	5.8	30%	Pass	
Mercury	W23-My0077489	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	W23-My0077489	NCP	mg/L	0.002	0.002	11	30%	Pass	
Zinc	W23-My0077489	NCP	mg/L	0.007	0.008	15	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-Jn0002594	NCP	ug/L	0.74	0.76	3.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0002594	NCP	ug/L	1.0	1.0	3.3	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-My0067068	NCP	ug/L	0.11	0.12	5.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0002594	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0002594	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-My0067068	NCP	ug/L	0.02	0.02	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0002594	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-My0067068	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-My0067068	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Catherine Wilson	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

FS 995383 2106123

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)			
SB171_1.0-1.2	Soil	29/05/2023	-	soil jar	1																		
SB171_1.3-1.5	Soil	29/05/2023	-	soil jar	1			X										X	X				
SB171_1.6-1.8	Soil	29/05/2023	-	soil jar	1																		
SB171_2.2-2.5	Soil	29/05/2023	-	soil jar	1								X										
SB171_2.8-3.0	Soil	29/05/2023	-	soil jar	1																		
SB172_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3			X	X	X													
SB172_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB172_1.0-1.1	Soil	29/05/2023	-	soil jar	1																		
SB172_1.2-1.5	Soil	29/05/2023	-	soil jar	1			X															
SB172_1.9-2.1	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X	X	X				
SB172_2.6-2.8	Soil	29/05/2023	-	soil jar	1																		
SB172_2.8-3.0	Soil	29/05/2023	-	soil jar	1																		
DUP11	Soil	29/05/2023	-	soil jar	1			X															
SPLIT11	Soil	29/05/2023	-	soil jar	1			X															
DUP30	Soil	29/05/2023	-	soil jar	1				X				X			X							PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT30	Soil	29/05/2023	-	soil jar	1				X				X			X							
DUP31	Soil	29/05/2023	-	soil jar	1																		PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT31	Soil	29/05/2023	-	soil jar	1																		
DUP32	Soil	29/05/2023	-	soil jar	1																		
SPLIT32	Soil	29/05/2023	-	soil jar	1																		
RB06	Water	29/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1		X		X														
FB03	Water	29/05/2023	-	1x PFAS	1				X														
						TOTAL	1	19	11	7	8	0	18	7	6	4	6	6	6	2	0	0		

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

*NOTES

FS 995383 2106123

OFFICIAL

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight

CONSIGNMENT NOTE NO.

TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY

COOLER SEAL

Yes ..... No .....

Broken ..... Intact ....

COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

ANALYSIS REQUIRED

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES

**Please send SPLIT11 and SPLIT30 to Envirolab for analysis with copy of this COC

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)		
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																
SB50_0-0.2	Soil	29/05/2023	-	soil jar	1																	
SB50_0.3-0.5	Soil	29/05/2023	-	soil jar	1								X	X		X						
SB50_0.8-1.0	Soil	29/05/2023	-	soil jar	1																	
SB50_1.3-1.5	Soil	29/05/2023	-	soil jar	1																	
SB50_1.7-2.0	Soil	29/05/2023	-	soil jar	1								X									
SB50_2.3-3.0	Soil	29/05/2023	-	soil jar	1			X														
SB53_0-0.2	Soil	29/05/2023	-	soil jar	1																	
SB53_0.2-0.5	Soil	29/05/2023	-	soil jar	1			X														
SB53_0.5-0.8	Soil	29/05/2023	-	soil jar	1																	
SB53_1.1-1.3	Soil	29/05/2023	-	soil jar	1																	
SB53_1.8-2.0	Soil	29/05/2023	-	soil jar	1			X														
SB73_0-0.2	Soil	29/05/2023	-	soil jar	1								X									
SB73_0.3-0.5	Soil	29/05/2023	-	soil jar	1																	
SB73_0.5-0.8	Soil	29/05/2023	-	soil jar	1																	
SB73_1.3-1.8	Soil	29/05/2023	-	soil jar	1																	
SB73_2.0-2.2	Soil	29/05/2023	-	soil jar	1																	
SB73_2.4-2.6	Soil	29/05/2023	-	soil jar	1																	
SB73_2.7-3.0	Soil	29/05/2023	-	soil jar	1			X														
SB74_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3				X	X	X		X	X	X		X					
SB74_0.3-0.5	Soil	29/05/2023	-	soil jar	1																	
SB74_0.5-0.8	Soil	29/05/2023	-	soil jar	1																	
SB74_1.3-1.5	Soil	29/05/2023	-	soil jar	1																	
SB74_1.6-1.7	Soil	29/05/2023	-	soil jar	1																	
SB74_1.7-2.0	Soil	29/05/2023	-	soil jar	1			X											X	X		
SB74_2.6-3.0	Soil	29/05/2023	-	soil jar	1																	
SB75_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3				X	X			X									
SB75_0.3-0.5	Soil	29/05/2023	-	soil jar	1																	
SB75_1.0-1.3	Soil	29/05/2023	-	soil jar	1																	
SB75_1.7-1.8	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X					
SB75_1.8-2.0	Soil	29/05/2023	-	soil jar	1																	
SB75_2.3-2.5	Soil	29/05/2023	-	soil jar	1			X														
SB75_2.8-3.0	Soil	29/05/2023	-	soil jar	1																	
SB76_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3			X	X	X												
SB76_0.3-0.5	Soil	29/05/2023	-	soil jar	1																	

FS9953832106123

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

ANALYSIS REQUIRED

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)			'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB76_0.6-0.8	Soil	29/05/2023	-	soil jar	1																		
SB76_1.3-1.5	Soil	29/05/2023	-	soil jar	1																		
SB76_1.6-1.8	Soil	29/05/2023	-	soil jar	1			X															
SB76_1.9-2.0	Soil	29/05/2023	-	soil jar	1						X		X			X		X	X				
SB76_2.5-2.7	Soil	29/05/2023	-	soil jar	1																		
SB76_2.8-3.0	Soil	29/05/2023	-	soil jar	1																		
SB77_0-0.2	Soil	29/05/2023	-	soil jar	1								X	X	X		X						
SB77_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB77_0.7-0.9	Soil	29/05/2023	-	soil jar	1																		
SB77_0.9-1.1	Soil	29/05/2023	-	soil jar	1			X															
SB77_1.6-1.7	Soil	29/05/2023	-	soil jar	1																		
SB77_2.1-2.3	Soil	29/05/2023	-	soil jar	1																		
SB77_2.4-2.6	Soil	29/05/2023	-	soil jar	1						X		X					X	X				
SB77_2.8-3.0	Soil	29/05/2023	-	soil jar	1			X			X							X	X				
SB78_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB78_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB78_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB79_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB79_0.3-0.5	Soil	29/05/2023	-	soil jar	1			X															
SB79_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB80_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB80_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB80_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB81_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB81_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB81_0.6-0.8	Soil	29/05/2023	-	soil jar	1																		
SB82_0-0.2	Soil	29/05/2023	-	soil jar	1			X															
SB82_0.6-0.8	Soil	29/05/2023	-	soil jar	1																		
SB82_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB83_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB83_0.3-0.5	Soil	29/05/2023	-	soil jar	1								X										
SB83_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB84_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB84_0.6-0.7	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X						

FS 995385 210623

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

***Container Type and Preservative Codes**:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)			*NOTES
SB84_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB85_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB85_0.6-0.7	Soil	29/05/2023	-	soil jar	1																		
SB85_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB86_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB86_0.6-0.7	Soil	29/05/2023	-	soil jar	1																		
SB86_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB87_0-0.2	Soil	29/05/2023	-	soil jar	1			X															
SB87_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB87_0.6-0.8	Soil	29/05/2023	-	soil jar	1																		
SB87_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB100_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB100_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB100_0.8-1.0	Soil	29/05/2023	-	soil jar	1																		
SB106_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar	2				X				X										
SB106_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB106_1.0-1.3	Soil	29/05/2023	-	soil jar	1																		
SB106_1.5-1.8	Soil	29/05/2023	-	soil jar	1																		
SB106_1.9-2.1	Soil	29/05/2023	-	soil jar	1																		
SB106_2.1-2.3	Soil	29/05/2023	-	soil jar x2, SPOCAS bag	3			X		X											X		
SB106_2.8-3.0	Soil	29/05/2023	-	soil jar	1																		
SB111_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3				X	X													
SB111_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		
SB111_0.8-1.1	Soil	29/05/2023	-	soil jar	1																		
SB111_1.4-1.7	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X						
SB111_2.2-2.5	Soil	29/05/2023	-	soil jar	1																		
SB111_2.7-3.0	Soil	29/05/2023	-	soil jar	1																		
SB167_0-0.2	Soil	29/05/2023	-	soil jar	1																		
SB167_0.3-0.6	Soil	29/05/2023	-	soil jar	1																		
SB167_0.6-0.8	Soil	29/05/2023	-	soil jar	1																		
SB167_1.3-1.6	Soil	29/05/2023	-	soil jar x2	1																X		
SB167_1.9-2.0	Soil	29/05/2023	-	soil jar	1																		
SB171_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3				X	X			X										
SB171_0.3-0.5	Soil	29/05/2023	-	soil jar	1																		

Tyrone Gowans

From: Amy Meunier
Sent: Thursday, 1 June 2023 5:25 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected in the field Monday (29/5) and sent to Melb yesterday (JBS&G job 64648)
Attachments: COC_64648S5_Eurofins.xlsx

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

FS 995383 210623

Hi Tyrone/Jake – Is this the batch from the tracker?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, 31 May 2023 2:58 PM
To: Amy Meunier <AmyMeunier@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected in the field Monday (29/5) and sent to Melb yesterday (JBS&G job 64648)
Importance: High

Hi again,

Apologies – please disregard my last email regarding these samples (I forgot to order analysis for the QC samples). Please use the attached COC instead for soil samples collected Monday (29/5) and sent to Melb yesterday (should have arrived this morning). Please note the following:

- Some samples are for SPOCAS analysis (short holding time)
- SPLIT11 and SPLIT30 are to be sent to Envirolab for analysis (with copy of the COC please)

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PROJECT INFORMATION

FS995383 2/06/23

Date Received: 30/05/'23

Company: JBS&G

Contact person: Kate. L

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 64648

COC: Attached ☐
E-mailed ☑ on IB
Not received ☐

SPOCAS was Frozen.

OFFICIAL

Fs 995383 210623

OFFICIAL

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

COPY

19

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		

MA

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																		
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)				
SB171_1.0-1.2	Soil	29/05/2023	-	soil jar	1																				
SB171_1.3-1.5	Soil	29/05/2023	-	soil jar	1			X										X	X						
SB171_1.6-1.8	Soil	29/05/2023	-	soil jar	1																				
SB171_2.2-2.5	Soil	29/05/2023	-	soil jar	1								X												
SB171_2.8-3.0	Soil	29/05/2023	-	soil jar	1																				
SB172_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3			X	X	X															
SB172_0.3-0.5	Soil	29/05/2023	-	soil jar	1																				
SB172_1.0-1.1	Soil	29/05/2023	-	soil jar	1																				
SB172_1.2-1.5	Soil	29/05/2023	-	soil jar	1			X																	
SB172_1.9-2.1	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X	X	X						
SB172_2.6-2.8	Soil	29/05/2023	-	soil jar	1																				
SB172_2.8-3.0	Soil	29/05/2023	-	soil jar	1																				
DUP11	Soil	29/05/2023	-	soil jar	1			X																	
SPLIT11	Soil	29/05/2023	-	soil jar	1			X																	
DUP30	Soil	29/05/2023	-	soil jar	1				X				X			X									PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT30	Soil	29/05/2023	-	soil jar	1				X				X			X									
DUP31	Soil	29/05/2023	-	soil jar	1																				PLEASE SEND TO ENVIROLAB FOR ANALYSIS
SPLIT31	Soil	29/05/2023	-	soil jar	1																				
DUP32	Soil	29/05/2023	-	soil jar	1																				
SPLIT32	Soil	29/05/2023	-	soil jar	1																				
RB06	Water	29/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1		X		X																
FB03	Water	29/05/2023	-	1x PFAS	1				X																
						TOTAL	1	19	11	7	8	0	18	7	6	4	6	6	6	2	0	0			

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

***NOTES**

Tyrone Gowans

From: Kate Lough <klough@jbsg.com.au>
Sent: Friday, 2 June 2023 12:49 PM
To: #AU_CAU001_EnviroSampleVic
Cc: Jack Ayers; S&G Labresults
Subject: Re: Eurofins Sample Receipt Advice - Report 995383 : Site URPS OSBORNE (64648)

Follow Up Flag: Follow up
Flag Status: Flagged

Hi,

Thanks for sending this through. Can we please analyse SB74_1.3-1.5 in place of missing sample SB74_1.7-2.0 for the same analyses?

Please let me know if there are any issues.

Thanks,
Kate

Sent from my iPhone

> On 2 Jun 2023, at 11:49 am, EnviroSampleVic@eurofins.com wrote:
>
>
>
> Dear Valued Client,
>
> Samples "SB74_1.7-2.0" & "SB74_2.6-3.0" were not recieved
>
> Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.
>
> *Regards*
>
> James Dobar
> ***Sample Receipt***

Tyrone Gowans

From: Amy Meunier
Sent: Monday, 5 June 2023 12:37 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: JBS&G job 64648 - additional sample analysis

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Jake,

Can you please assist with the below changes?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 5 June 2023 10:22 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: JBS&G job 64648 - additional sample analysis
Importance: High

Hi Amy,

Can I please add the following samples for analysis:

- SB126_0.8-1.1 (collected on 31 May; yet to receive the SRA) for B7
- SB171_2.2-2.5 (collected on 29 May; Eurofins ref 995383) for M8
- DUP32 (collected on 31 May; yet to receive the SRA) for B7
- DUP31 (collected on 29 May; Eurofins ref 995383) for M8
- SPLIT32 (collected on 31 May; yet to receive the SRA) to be forwarded to Envirolab for analysis for Metals (8), TRH, BTEX, PAH

- SPLIT31 (collected on 29 May; Eurofins ref 995383) to be forwarded to Envirolab for analysis for Metals (8)

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

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Eurofins Environment Testing NZ Ltd

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IANZ# 1327

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43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Jack Ayers
Project name:	URPS OSBORNE
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	May 31, 2023 2:58 PM
Eurofins reference	995383

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples "SB74_1.7-2.0" & "SB74_2.6-3.0" were not recieved

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Jack Ayers - jayers@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **995383-S**
Project name URPS OSBORNE
Project ID 64648
Received Date May 31, 2023

Client Sample ID			**SB50_0.3-0.5**	**SB50_1.7-2.0**	**SB50_2.3-3.0**	**SB53_0.2-0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Jn0004062**	**M23-Jn0004063**	**M23-Jn0004064**	**M23-Jn0004065**
Date Sampled			**May 29, 2023**	**May 29, 2023**	**May 29, 2023**	**May 29, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	83	76	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-

eurofins | Environment Testing

Client Sample ID			SB50_0.3-0.5	SB50_1.7-2.0	SB50_2.3-3.0	SB53_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004062	M23-Jn0004063	M23-Jn0004064	M23-Jn0004065
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	83	-	-	-
Toluene-d8 (surr.)	1	%	66	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-

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Client Sample ID			SB50_0.3-0.5	SB50_1.7-2.0	SB50_2.3-3.0	SB53_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004062	M23-Jn0004063	M23-Jn0004064	M23-Jn0004065
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	89	103	-	-
p-Terphenyl-d14 (surr.)	1	%	103	145	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	84	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	91	-	-	-

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Client Sample ID			SB50_0.3-0.5	SB50_1.7-2.0	SB50_2.3-3.0	SB53_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004062	M23-Jn0004063	M23-Jn0004064	M23-Jn0004065
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.8	5.2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	21	< 5	6.1
Copper	5	mg/kg	11	8.1	< 5	6.4
Lead	5	mg/kg	6.4	5.4	< 5	7.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	9.2	< 5	< 5
Zinc	5	mg/kg	19	33	< 5	16
Sample Properties						
% Moisture	1	%	15	18	32	14

Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	81	-	102
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	102
Toluene-d8 (surr.)	1	%	-	-	-	70

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Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	59	-	66
p-Terphenyl-d14 (surr.)	1	%	-	72	-	129
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1

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Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	110
Heavy Metals						
Arsenic	2	mg/kg	8.2	4.4	6.5	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	11	< 5	9.8
Copper	5	mg/kg	12	13	< 5	15
Lead	5	mg/kg	8.9	19	< 5	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	7.3	< 5	6.8
Zinc	5	mg/kg	23	37	< 5	35
Sample Properties						
% Moisture	1	%	31	11	46	11
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	64

eurofins | Environment Testing

Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	110
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.4
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.3
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	8.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.12
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.20
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.078
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	49
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.29
Calcium - Peroxide	0.005	% Ca	-	-	-	7.1
Calcium - Acid Reacted	0.005	% Ca	-	-	-	6.8
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	5.4
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	3400
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.030
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.32
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.29
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.38
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	240
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	20
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	6.5
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	4000

eurofins | Environment Testing

Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	170
>2mm Fraction	0.005	g	-	-	-	4.3
Analysed Material	0.1	%	-	-	-	98
Extraneous Material	0.1	%	-	-	-	2.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	66
13C5-PFPeA (surr.)	1	%	-	-	-	74
13C5-PFHxA (surr.)	1	%	-	-	-	82
13C4-PFHpA (surr.)	1	%	-	-	-	85
13C8-PFOA (surr.)	1	%	-	-	-	95
13C5-PFNA (surr.)	1	%	-	-	-	94
13C6-PFDA (surr.)	1	%	-	-	-	88
13C2-PFUnDA (surr.)	1	%	-	-	-	66
13C2-PFDoDA (surr.)	1	%	-	-	-	87
13C2-PFTeDA (surr.)	1	%	-	-	-	99
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	61
D3-N-MeFOSA (surr.)	1	%	-	-	-	85
D5-N-EtFOSA (surr.)	1	%	-	-	-	97
D7-N-MeFOSE (surr.)	1	%	-	-	-	81
D9-N-EtFOSE (surr.)	1	%	-	-	-	82

eurofins | Environment Testing

Client Sample ID			SB53_1.8-2.0	SB73_0-0.2	SB73_2.7-3.0	SB74_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004066	M23-Jn0004067	M23-Jn0004068	M23-Jn0004069
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSAA (surr.)	1	%	-	-	-	92
D3-N-MeFOSAA (surr.)	1	%	-	-	-	103
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	78
18O2-PFHxS (surr.)	1	%	-	-	-	77
13C8-PFOS (surr.)	1	%	-	-	-	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	78
13C2-6:2 FTSA (surr.)	1	%	-	-	-	80
13C2-8:2 FTSA (surr.)	1	%	-	-	-	127
13C2-10:2 FTSA (surr.)	1	%	-	-	-	88
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	72	134	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	134	-	-
Toluene-d8 (surr.)	1	%	-	70	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	65	64	-	-
p-Terphenyl-d14 (surr.)	1	%	81	81	-	-

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	72	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.2	4.4	2.4	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	5.9	9.6	15
Copper	5	mg/kg	9.6	13	6.7	12
Lead	5	mg/kg	19	< 5	< 5	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.8	12	5.5	8.2
Zinc	5	mg/kg	27	8.4	8.2	34
Sample Properties						
% Moisture	1	%	12	22	19	12
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	54	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	72	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	13	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.4	-	-	9.3
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.2	-	-	8.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	< 0.02

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.13	-	-	0.094
Peroxide Extractable Sulfur	0.005	% S	0.19	-	-	0.15
HCl Extractable Sulfur	0.005	% S	N/A	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.067	-	-	0.053
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	42	-	-	33
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.29	-	-	0.26
Calcium - Peroxide	0.005	% Ca	7.5	-	-	5.7
Calcium - Acid Reacted	0.005	% Ca	7.2	-	-	5.5
Calcium - Acid Reacted (s-aCa)	0.005	% S	5.8	-	-	4.4
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	3600	-	-	2700
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.021	-	-	0.040
Magnesium - Peroxide	0.005	% Mg	0.32	-	-	0.29
Magnesium - Acid Reacted	0.005	% Mg	0.30	-	-	0.25
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.39	-	-	0.33
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	240	-	-	200
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	20	-	-	16
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	6.5	-	-	5.1
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	4000	-	-	3200
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	190	-	-	170
>2mm Fraction	0.005	g	2.9	-	-	1.0
Analysed Material	0.1	%	99	-	-	99
Extraneous Material	0.1	%	1.5	-	-	0.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	44	-	-	30
13C5-PFPeA (surr.)	1	%	66	-	-	43
13C5-PFHxA (surr.)	1	%	67	-	-	56
13C4-PFHpA (surr.)	1	%	77	-	-	61
13C8-PFOA (surr.)	1	%	74	-	-	76
13C5-PFNA (surr.)	1	%	76	-	-	78
13C6-PFDA (surr.)	1	%	58	-	-	74
13C2-PFUnDA (surr.)	1	%	61	-	-	60
13C2-PFDoDA (surr.)	1	%	75	-	-	80
13C2-PFTeDA (surr.)	1	%	93	-	-	92
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	92	-	-	68
D3-N-MeFOSA (surr.)	1	%	84	-	-	86
D5-N-EtFOSA (surr.)	1	%	108	-	-	96
D7-N-MeFOSE (surr.)	1	%	53	-	-	88
D9-N-EtFOSE (surr.)	1	%	71	-	-	80
D5-N-EtFOSAA (surr.)	1	%	97	-	-	77
D3-N-MeFOSAA (surr.)	1	%	80	-	-	78
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	69	-	-	65
18O2-PFHxS (surr.)	1	%	70	-	-	72
13C8-PFOS (surr.)	1	%	74	-	-	104
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5

eurofins | Environment Testing

Client Sample ID			SB75_0-0.2	SB75_1.7-1.8	SB75_2.3-2.5	SB76_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004071	M23-Jn0004072	M23-Jn0004073	M23-Jn0004074
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	56	-	-	37
13C2-6:2 FTSA (surr.)	1	%	65	-	-	58
13C2-8:2 FTSA (surr.)	1	%	86	-	-	100
13C2-10:2 FTSA (surr.)	1	%	67	-	-	85
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

Client Sample ID			SB76_1.6-1.8	SB76_1.9-2.0	SB77_0-0.2	SB77_0.9-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004075	M23-Jn0004076	M23-Jn0004077	M23-Jn0004078
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	84	108	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB76_1.6-1.8	SB76_1.9-2.0	SB77_0-0.2	SB77_0.9-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004075	M23-Jn0004076	M23-Jn0004077	M23-Jn0004078
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	108	-
Toluene-d8 (surr.)	1	%	-	-	104	-

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Client Sample ID			SB76_1.6-1.8	SB76_1.9-2.0	SB77_0-0.2	SB77_0.9-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004075	M23-Jn0004076	M23-Jn0004077	M23-Jn0004078
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	93	100	-
p-Terphenyl-d14 (surr.)	1	%	-	112	90	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-

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Client Sample ID			SB76_1.6-1.8	SB76_1.9-2.0	SB77_0-0.2	SB77_0.9-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004075	M23-Jn0004076	M23-Jn0004077	M23-Jn0004078
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	71	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	87	60	-
Heavy Metals						
Arsenic	2	mg/kg	28	2.6	5.1	4.3
Cadmium	0.4	mg/kg	11	6.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.5	< 5	14	11
Copper	5	mg/kg	12	16	9.7	11
Lead	5	mg/kg	170	27	13	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	7.5	7.5	6.5
Zinc	5	mg/kg	50	6.9	46	20
Sample Properties						
% Moisture	1	%	36	31	16	17
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	95	-

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Client Sample ID			SB76_1.6-1.8	SB76_1.9-2.0	SB77_0-0.2	SB77_0.9-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004075	M23-Jn0004076	M23-Jn0004077	M23-Jn0004078
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	60	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	13	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	86	-	-

Client Sample ID			SB77_2.4-2.6	SB77_2.8-3.0	SB79_0.3-0.5	SB82_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004079	M23-Jn0004080	M23-Jn0004081	M23-Jn0004082
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-

eurofins | Environment Testing

Client Sample ID			SB77_2.4-2.6	SB77_2.8-3.0	SB79_0.3-0.5	SB82_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004079	M23-Jn0004080	M23-Jn0004081	M23-Jn0004082
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	81	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	65	-	-	-
p-Terphenyl-d14 (surr.)	1	%	61	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.8	24	5.6	4.5
Cadmium	0.4	mg/kg	4.7	14	1.2	< 0.4
Chromium	5	mg/kg	7.4	23	9.9	14
Copper	5	mg/kg	13	12	11	6.9
Lead	5	mg/kg	63	150	410	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	18	9.3	6.5
Zinc	5	mg/kg	31	49	87	36
Sample Properties						
% Moisture	1	%	31	45	9.6	11
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	13	13	-	-
Cyanide (total)	5	mg/kg	< 5	< 5	-	-
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	< 1.25	-	-
Dibutyltin	1	mg/kg	< 1	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Monobutyltin	0.75	mg/kg	< 0.75	< 0.75	-	-

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Client Sample ID			SB77_2.4-2.6	SB77_2.8-3.0	SB79_0.3-0.5	SB82_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004079	M23-Jn0004080	M23-Jn0004081	M23-Jn0004082
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organotins						
Monobutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	95	94	-	-

Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	59	-	102
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	59	-	-
Toluene-d8 (surr.)	1	%	-	70	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

eurofins | Environment Testing

Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	89	-	74
p-Terphenyl-d14 (surr.)	1	%	90	81	-	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	50	-	-

eurofins | Environment Testing

Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.6	5.3	5.1	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.7	16	13	10
Copper	5	mg/kg	5.3	11	10	11
Lead	5	mg/kg	6.3	15	17	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.4	7.0	5.7
Zinc	5	mg/kg	27	30	27	30
Sample Properties						
% Moisture	1	%	16	17	14	13
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	82	-	-

eurofins | Environment Testing

Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	50	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.0	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	73
13C5-PFPeA (surr.)	1	%	-	-	-	120
13C5-PFHxA (surr.)	1	%	-	-	-	129
13C4-PFHpA (surr.)	1	%	-	-	-	120
13C8-PFOA (surr.)	1	%	-	-	-	128
13C5-PFNA (surr.)	1	%	-	-	-	126
13C6-PFDA (surr.)	1	%	-	-	-	92
13C2-PFUnDA (surr.)	1	%	-	-	-	77
13C2-PFDoDA (surr.)	1	%	-	-	-	110
13C2-PFTeDA (surr.)	1	%	-	-	-	134
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	89
D3-N-MeFOSA (surr.)	1	%	-	-	-	132
D5-N-EtFOSA (surr.)	1	%	-	-	-	129

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Client Sample ID			SB83_0.3-0.5	SB84_0.6-0.7	SB87_0-0.2	SB106_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004083	M23-Jn0004084	M23-Jn0004085	M23-Jn0004086
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D7-N-MeFOSE (surr.)	1	%	-	-	-	121
D9-N-EtFOSE (surr.)	1	%	-	-	-	118
D5-N-EtFOSAA (surr.)	1	%	-	-	-	120
D3-N-MeFOSAA (surr.)	1	%	-	-	-	115
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	108
18O2-PFHxS (surr.)	1	%	-	-	-	98
13C8-PFOS (surr.)	1	%	-	-	-	81
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	117
13C2-6:2 FTSA (surr.)	1	%	-	-	-	122
13C2-8:2 FTSA (surr.)	1	%	-	-	-	108
13C2-10:2 FTSA (surr.)	1	%	-	-	-	140
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-

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Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-
Toluene-d8 (surr.)	1	%	-	-	54	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	102	-
p-Terphenyl-d14 (surr.)	1	%	-	-	108	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	53	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	< 2	-
Cadmium	0.4	mg/kg	< 0.4	-	0.4	-
Chromium	5	mg/kg	< 5	-	5.4	-
Copper	5	mg/kg	< 5	-	< 5	-
Iron	20	mg/kg	1100	-	-	16000
Lead	5	mg/kg	< 5	-	11	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	< 5	-	< 5	-
Zinc	5	mg/kg	14	-	45	-
Sample Properties						
% Moisture	1	%	40	19	24	24
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	53	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	53	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	11	-
% Clay	1	%	5.9	-	-	10
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	11000	-	-	5600
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	7.9	-	-	9.5
Total Organic Carbon	0.1	%	7.0	-	-	0.7
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	8.9	9.3	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	-	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	7.0	8.2	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.19	0.15	-	-
Peroxide Extractable Sulfur	0.005	% S	0.77	0.22	-	-
HCl Extractable Sulfur	0.005	% S	N/A	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.58	0.077	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	360	48	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.40	0.32	-	-
Calcium - Peroxide	0.005	% Ca	6.1	7.9	-	-
Calcium - Acid Reacted	0.005	% Ca	5.7	7.6	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	4.6	6.1	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	2800	3800	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.24	0.035	-	-
Magnesium - Peroxide	0.005	% Mg	0.56	0.34	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.32	0.30	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.42	0.40	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	260	250	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	14	23	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	4.4	7.3	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	2700	4500	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	59	130	-	-
>2mm Fraction	0.005	g	< 0.005	3.9	-	-
Analysed Material	0.1	%	100	97	-	-
Extraneous Material	0.1	%	< 0.1	3.0	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	61	-	-
13C5-PFPeA (surr.)	1	%	-	116	-	-
13C5-PFHxA (surr.)	1	%	-	125	-	-
13C4-PFHpA (surr.)	1	%	-	122	-	-
13C8-PFOA (surr.)	1	%	-	126	-	-
13C5-PFNA (surr.)	1	%	-	123	-	-
13C6-PFDA (surr.)	1	%	-	85	-	-
13C2-PFUnDA (surr.)	1	%	-	86	-	-
13C2-PFDoDA (surr.)	1	%	-	114	-	-
13C2-PFTeDA (surr.)	1	%	-	137	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	87	-	-
D3-N-MeFOSA (surr.)	1	%	-	131	-	-
D5-N-EtFOSA (surr.)	1	%	-	133	-	-
D7-N-MeFOSE (surr.)	1	%	-	126	-	-
D9-N-EtFOSE (surr.)	1	%	-	109	-	-
D5-N-EtFOSAA (surr.)	1	%	-	120	-	-
D3-N-MeFOSAA (surr.)	1	%	-	115	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	107	-	-
18O2-PFHxS (surr.)	1	%	-	99	-	-
13C8-PFOS (surr.)	1	%	-	75	-	-

eurofins | Environment Testing

Client Sample ID			SB106_2.1-2.3	SB111_0-0.2	SB111_1.4-1.7	SB167_1.3-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004087	M23-Jn0004088	M23-Jn0004089	M23-Jn0004090
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	106	-	-
13C2-6:2 FTSA (surr.)	1	%	-	135	-	-
13C2-8:2 FTSA (surr.)	1	%	-	120	-	-
13C2-10:2 FTSA (surr.)	1	%	-	120	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Heavy Metals						
Iron (%)	0.01	%	0.11	-	-	1.6
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	44	-	-	45

Client Sample ID			SB171_0-0.2	SB171_1.3-1.5	SB171_2.2-2.5	SB172_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004091	M23-Jn0004092	M23-Jn0004093	M23-Jn0004094
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	90	-	61	-

eurofins | Environment Testing

Client Sample ID			SB171_0-0.2	SB171_1.3-1.5	SB171_2.2-2.5	SB172_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004091	M23-Jn0004092	M23-Jn0004093	M23-Jn0004094
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	51	-	51	-
p-Terphenyl-d14 (surr.)	1	%	96	-	55	-
Heavy Metals						
Arsenic	2	mg/kg	4.4	6.0	12	3.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.9	< 0.4
Chromium	5	mg/kg	15	11	< 5	12
Copper	5	mg/kg	12	12	29	11
Lead	5	mg/kg	17	15	33	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.4	11	8.9	7.2
Zinc	5	mg/kg	36	29	13	29
Sample Properties						
% Moisture	1	%	13	18	44	16
Cyanide (total)	5	mg/kg	-	< 5	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	-	-	10
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.5	-	-	8.5
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	< 0.02

eurofins | Environment Testing

Client Sample ID			SB171_0-0.2	SB171_1.3-1.5	SB171_2.2-2.5	SB172_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004091	M23-Jn0004092	M23-Jn0004093	M23-Jn0004094
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.11	-	-	0.13
Peroxide Extractable Sulfur	0.005	% S	0.18	-	-	0.21
HCl Extractable Sulfur	0.005	% S	N/A	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.077	-	-	0.076
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	48	-	-	48
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.36	-	-	0.34
Calcium - Peroxide	0.005	% Ca	8.3	-	-	6.4
Calcium - Acid Reacted	0.005	% Ca	7.9	-	-	6.1
Calcium - Acid Reacted (s-aCa)	0.005	% S	6.3	-	-	4.9
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	3900	-	-	3000
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-	-	0.006
Magnesium - Peroxide	0.005	% Mg	0.27	-	-	0.30
Magnesium - Acid Reacted	0.005	% Mg	0.27	-	-	0.30
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.36	-	-	0.39
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	230	-	-	250
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	23	-	-	17
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	7.5	-	-	5.5
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	4700	-	-	3500
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	120	-	-	200
>2mm Fraction	0.005	g	35	-	-	33
Analysed Material	0.1	%	77	-	-	86
Extraneous Material	0.1	%	23	-	-	14
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5

eurofins | Environment Testing

Client Sample ID			SB171_0-0.2	SB171_1.3-1.5	SB171_2.2-2.5	SB172_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004091	M23-Jn0004092	M23-Jn0004093	M23-Jn0004094
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	68	-	-	61
13C5-PFPeA (surr.)	1	%	119	-	-	114
13C5-PFHxA (surr.)	1	%	127	-	-	127
13C4-PFHpA (surr.)	1	%	122	-	-	120
13C8-PFOA (surr.)	1	%	129	-	-	125
13C5-PFNA (surr.)	1	%	122	-	-	123
13C6-PFDA (surr.)	1	%	84	-	-	95
13C2-PFUnDA (surr.)	1	%	78	-	-	86
13C2-PFDoDA (surr.)	1	%	113	-	-	113
13C2-PFTeDA (surr.)	1	%	133	-	-	134
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	89	-	-	88
D3-N-MeFOSA (surr.)	1	%	134	-	-	129
D5-N-EtFOSA (surr.)	1	%	134	-	-	128
D7-N-MeFOSE (surr.)	1	%	125	-	-	126
D9-N-EtFOSE (surr.)	1	%	121	-	-	109
D5-N-EtFOSAA (surr.)	1	%	111	-	-	120
D3-N-MeFOSAA (surr.)	1	%	116	-	-	115
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	107	-	-	105
18O2-PFHxS (surr.)	1	%	98	-	-	100
13C8-PFOS (surr.)	1	%	76	-	-	72
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5

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Client Sample ID			SB171_0-0.2	SB171_1.3-1.5	SB171_2.2-2.5	SB172_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004091	M23-Jn0004092	M23-Jn0004093	M23-Jn0004094
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	110	-	-	102
13C2-6:2 FTSA (surr.)	1	%	132	-	-	133
13C2-8:2 FTSA (surr.)	1	%	147	-	-	98
13C2-10:2 FTSA (surr.)	1	%	136	-	-	112
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	93	-	-

Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	24	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	64	-	69

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	64	-	-
Toluene-d8 (surr.)	1	%	-	59	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	101	-	94
p-Terphenyl-d14 (surr.)	1	%	-	104	-	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	94	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	64	-	86
Heavy Metals						
Arsenic	2	mg/kg	< 2	7.4	4.3	4.8
Cadmium	0.4	mg/kg	< 0.4	2.7	< 0.4	< 0.4
Chromium	5	mg/kg	6.8	7.4	14	13
Copper	5	mg/kg	11	19	11	10
Lead	5	mg/kg	< 5	38	17	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.0	6.8	7.3	7.2
Zinc	5	mg/kg	6.7	62	40	29
Sample Properties						
% Moisture	1	%	21	28	14	14
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	97	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	94	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	13	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	82
13C5-PFPeA (surr.)	1	%	-	-	-	123
13C5-PFHxA (surr.)	1	%	-	-	-	127
13C4-PFHpA (surr.)	1	%	-	-	-	121
13C8-PFOA (surr.)	1	%	-	-	-	129
13C5-PFNA (surr.)	1	%	-	-	-	125
13C6-PFDA (surr.)	1	%	-	-	-	84
13C2-PFUnDA (surr.)	1	%	-	-	-	84
13C2-PFDoDA (surr.)	1	%	-	-	-	114
13C2-PFTeDA (surr.)	1	%	-	-	-	131

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	89
D3-N-MeFOSA (surr.)	1	%	-	-	-	131
D5-N-EtFOSA (surr.)	1	%	-	-	-	132
D7-N-MeFOSE (surr.)	1	%	-	-	-	121
D9-N-EtFOSE (surr.)	1	%	-	-	-	122
D5-N-EtFOSAA (surr.)	1	%	-	-	-	125
D3-N-MeFOSAA (surr.)	1	%	-	-	-	119
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	106
18O2-PFHxS (surr.)	1	%	-	-	-	98
13C8-PFOS (surr.)	1	%	-	-	-	69
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	119
13C2-6:2 FTSA (surr.)	1	%	-	-	-	135
13C2-8:2 FTSA (surr.)	1	%	-	-	-	123
13C2-10:2 FTSA (surr.)	1	%	-	-	-	122
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

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Client Sample ID			SB172_1.2-1.5	SB172_1.9-2.1	DUP11	DUP30
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0004095	M23-Jn0004096	M23-Jn0004097	M23-Jn0004098
Date Sampled			May 29, 2023	May 29, 2023	May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	94	-	-

Client Sample ID			SB74_1.3-1.5	DUP31
Sample Matrix			Soil	Soil
Eurofins Sample No.			M23-Jn0004114	M23-Jn0004180
Date Sampled			May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	13	19
Cadmium	0.4	mg/kg	< 0.4	4.1
Chromium	5	mg/kg	15	5.7
Copper	5	mg/kg	24	23
Lead	5	mg/kg	41	82
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	11	9.8
Zinc	5	mg/kg	82	40
Sample Properties				
% Moisture	1	%	32	38
Cyanide (total)	5	mg/kg	< 5	-
Organotins				
Tributyltin	1.25	mg/kg	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	101	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 05, 2023	28 Days
- Method:			
Volatile Organics	Melbourne	Jun 03, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 03, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (total)	Melbourne	Jun 05, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Organotins	Melbourne	Jun 05, 2023	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 03, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
NEPM Screen for Soil Classification			
Heavy Metals	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Clay	Brisbane	Jun 09, 2023	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Jun 03, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Jun 03, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 05, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 09, 2023	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 09, 2023	6 Week
- Method: LTM-GEN-7050/7070			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 03, 2023	28 Days

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Description	Testing Site	Extracted	Holding Time
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 03, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 02, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 995383
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 31, 2023 2:58 PM
Due: Jun 5, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	SB50_0.3-0.5	May 29, 2023		Soil	M23-Jn0004062					X				X		X		X			
2	SB50_1.7-2.0	May 29, 2023		Soil	M23-Jn0004063											X		X			
3	SB50_2.3-3.0	May 29, 2023		Soil	M23-Jn0004064							X				X					
4	SB53_0.2-0.5	May 29, 2023		Soil	M23-Jn0004065							X				X					
5	SB53_1.8-2.0	May 29, 2023		Soil	M23-Jn0004066							X				X					
6	SB73_0-0.2	May 29, 2023		Soil	M23-Jn0004067											X		X			
7	SB73_2.7-3.0	May 29, 2023		Soil	M23-Jn0004068							X				X					
8	SB74_0-0.2	May 29, 2023		Soil	M23-Jn0004069				X		X		X	X	X	X		X		X	
9	SB74_1.7-2.0	May 29, 2023		Soil	M23-Jn0004070	X															
10	SB75_0-0.2	May 29, 2023		Soil	M23-Jn0004071										X	X		X		X	
11	SB75_1.7-1.8	May 29, 2023		Soil	M23-Jn0004072				X		X		X	X		X		X			
12	SB75_2.3-2.5	May 29, 2023		Soil	M23-Jn0004073							X				X					

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Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
13	SB76_0-0.2	May 29, 2023		Soil	M23-Jn0004074							X			X	X				X	
14	SB76_1.6-1.8	May 29, 2023		Soil	M23-Jn0004075							X				X					
15	SB76_1.9-2.0	May 29, 2023		Soil	M23-Jn0004076		X		X	X						X		X			X
16	SB77_0-0.2	May 29, 2023		Soil	M23-Jn0004077						X		X	X		X		X			
17	SB77_0.9-1.1	May 29, 2023		Soil	M23-Jn0004078							X				X					
18	SB77_2.4-2.6	May 29, 2023		Soil	M23-Jn0004079		X		X							X		X			X
19	SB77_2.8-3.0	May 29, 2023		Soil	M23-Jn0004080		X		X			X				X					X
20	SB79_0.3-0.5	May 29, 2023		Soil	M23-Jn0004081							X				X					
21	SB82_0-0.2	May 29, 2023		Soil	M23-Jn0004082							X				X					
22	SB83_0.3-0.5	May 29, 2023		Soil	M23-Jn0004083											X		X			
23	SB84_0.6-0.7	May 29, 2023		Soil	M23-Jn0004084				X		X		X	X		X		X			
24	SB87_0-0.2	May 29, 2023		Soil	M23-Jn0004085							X				X					
25	SB106_0-0.2	May 29, 2023		Soil	M23-Jn0004086											X		X		X	
26	SB106_2.1-2.3	May 29, 2023		Soil	M23-Jn0004087							X			X	X	X				
27	SB111_0-0.2	May 29, 2023		Soil	M23-Jn0004088										X	X				X	

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
28	SB111_1.4-1.7	May 29, 2023		Soil	M23-Jn0004089				X		X		X	X		X		X			
29	SB167_1.3-1.6	May 29, 2023		Soil	M23-Jn0004090											X	X				
30	SB171_0-0.2	May 29, 2023		Soil	M23-Jn0004091										X	X		X		X	
31	SB171_1.3-1.5	May 29, 2023		Soil	M23-Jn0004092		X					X				X					X
32	SB171_2.2-2.5	May 29, 2023		Soil	M23-Jn0004093											X		X			
33	SB172_0-0.2	May 29, 2023		Soil	M23-Jn0004094							X			X	X				X	
34	SB172_1.2-1.5	May 29, 2023		Soil	M23-Jn0004095							X				X					
35	SB172_1.9-2.1	May 29, 2023		Soil	M23-Jn0004096		X		X		X		X	X		X		X			X
36	DUP11	May 29, 2023		Soil	M23-Jn0004097							X				X					
37	DUP30	May 29, 2023		Soil	M23-Jn0004098					X						X		X		X	
38	RB06	May 29, 2023		Water	M23-Jn0004099														X	X	
39	FB03	May 29, 2023		Water	M23-Jn0004100															X	
40	SB50_0-0.2	May 29, 2023		Soil	M23-Jn0004101			X													
41	SB50_0.8-1.0	May 29, 2023		Soil	M23-Jn0004102			X													
42	SB50_1.3-1.5	May 29, 2023		Soil	M23-Jn0004103			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
43	SB53_0-0.2	May 29, 2023		Soil	M23-Jn0004104			X													
44	SB53_0.5-0.8	May 29, 2023		Soil	M23-Jn0004105			X													
45	SB53_1.1-1.3	May 29, 2023		Soil	M23-Jn0004106			X													
46	SB73_0.3-0.5	May 29, 2023		Soil	M23-Jn0004107			X													
47	SB73_0.5-0.8	May 29, 2023		Soil	M23-Jn0004108			X													
48	SB73_1.3-1.8	May 29, 2023		Soil	M23-Jn0004109			X													
49	SB73_2.0-2.2	May 29, 2023		Soil	M23-Jn0004110			X													
50	SB73_2.4-2.6	May 29, 2023		Soil	M23-Jn0004111			X													
51	SB74_0.3-0.5	May 29, 2023		Soil	M23-Jn0004112			X													
52	SB74_0.5-0.8	May 29, 2023		Soil	M23-Jn0004113			X													
53	SB74_1.3-1.5	May 29, 2023		Soil	M23-Jn0004114		X					X				X					X
54	SB74_1.6-1.7	May 29, 2023		Soil	M23-Jn0004115			X													
55	SB74_2.6-3.0	May 29, 2023		Soil	M23-Jn0004116	X															
56	SB75_0.3-0.5	May 29, 2023		Soil	M23-Jn0004117			X													
57	SB75_1.0-1.3	May 29, 2023		Soil	M23-Jn0004118			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
58	SB75_1.8-2.0	May 29, 2023		Soil	M23-Jn0004119			X													
59	SB75_2.8-3.0	May 29, 2023		Soil	M23-Jn0004120			X													
60	SB76_0.3-0.5	May 29, 2023		Soil	M23-Jn0004121			X													
61	SB76_0.6-0.8	May 29, 2023		Soil	M23-Jn0004122			X													
62	SB76_1.3-1.5	May 29, 2023		Soil	M23-Jn0004123			X													
63	SB76_2.5-2.7	May 29, 2023		Soil	M23-Jn0004124			X													
64	SB76_2.8-3.0	May 29, 2023		Soil	M23-Jn0004125			X													
65	SB77_0.3-0.5	May 29, 2023		Soil	M23-Jn0004126			X													
66	SB77_0.7-0.9	May 29, 2023		Soil	M23-Jn0004127			X													
67	SB77_1.6-1.7	May 29, 2023		Soil	M23-Jn0004128			X													
68	SB77_2.1-2.3	May 29, 2023		Soil	M23-Jn0004129			X													
69	SB78_0-0.2	May 29, 2023		Soil	M23-Jn0004130			X													
70	SB78_0.3-0.5	May 29, 2023		Soil	M23-Jn0004131			X													
71	SB78_0.8-1.0	May 29, 2023		Soil	M23-Jn0004132			X													
72	SB79_0-0.2	May 29, 2023		Soil	M23-Jn0004133			X													

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Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
73	SB79_0.8-1.0	May 29, 2023		Soil	M23-Jn0004134			X													
74	SB80_0-0.2	May 29, 2023		Soil	M23-Jn0004135			X													
75	SB80_0.3-0.5	May 29, 2023		Soil	M23-Jn0004136			X													
76	SB80_0.8-1.0	May 29, 2023		Soil	M23-Jn0004137			X													
77	SB81_0-0.2	May 29, 2023		Soil	M23-Jn0004138			X													
78	SB81_0.3-0.5	May 29, 2023		Soil	M23-Jn0004139			X													
79	SB81_0.6-0.8	May 29, 2023		Soil	M23-Jn0004140			X													
80	SB82_0.6-0.8	May 29, 2023		Soil	M23-Jn0004141			X													
81	SB82_0.8-1.0	May 29, 2023		Soil	M23-Jn0004142			X													
82	SB83_0-0.2	May 29, 2023		Soil	M23-Jn0004143			X													
83	SB83_0.8-1.0	May 29, 2023		Soil	M23-Jn0004144			X													
84	SB84_0-0.2	May 29, 2023		Soil	M23-Jn0004145			X													
85	SB84_0.8-1.0	May 29, 2023		Soil	M23-Jn0004146			X													
86	SB85_0-0.2	May 29, 2023		Soil	M23-Jn0004147			X													
87	SB85_0.6-0.7	May 29, 2023		Soil	M23-Jn0004148			X													

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 995383
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 31, 2023 2:58 PM
Due: Jun 5, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
88	SB85_0.8-1.0	May 29, 2023		Soil	M23-Jn0004149			X													
89	SB86_0-0.2	May 29, 2023		Soil	M23-Jn0004150			X													
90	SB86_0.6-0.7	May 29, 2023		Soil	M23-Jn0004151			X													
91	SB86_0.8-1.0	May 29, 2023		Soil	M23-Jn0004152			X													
92	SB87_0.3-0.5	May 29, 2023		Soil	M23-Jn0004153			X													
93	SB87_0.6-0.8	May 29, 2023		Soil	M23-Jn0004154			X													
94	SB87_0.8-1.0	May 29, 2023		Soil	M23-Jn0004155			X													
95	SB100_0-0.2	May 29, 2023		Soil	M23-Jn0004156			X													
96	SB100_0.3-0.5	May 29, 2023		Soil	M23-Jn0004157			X													
97	SB100_0.8-1.0	May 29, 2023		Soil	M23-Jn0004158			X													
98	SB106_0.3-0.5	May 29, 2023		Soil	M23-Jn0004159			X													
99	SB106_1.0-1.3	May 29, 2023		Soil	M23-Jn0004160			X													
100	SB106_1.5-1.8	May 29, 2023		Soil	M23-Jn0004161			X													
101	SB106_1.9-2.1	May 29, 2023		Soil	M23-Jn0004162			X													
102	SB106_2.8-3.0	May 29, 2023		Soil	M23-Jn0004163			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
103	SB111_0.3-0.5	May 29, 2023		Soil	M23-Jn0004164			X													
104	SB111_0.8-1.1	May 29, 2023		Soil	M23-Jn0004165			X													
105	SB111_2.2-2.5	May 29, 2023		Soil	M23-Jn0004166			X													
106	SB111_2.7-3.0	May 29, 2023		Soil	M23-Jn0004167			X													
107	SB167_0-0.2	May 29, 2023		Soil	M23-Jn0004168			X													
108	SB167_0.3-0.6	May 29, 2023		Soil	M23-Jn0004169			X													
109	SB167_0.6-0.8	May 29, 2023		Soil	M23-Jn0004170			X													
110	SB167_1.9-2.0	May 29, 2023		Soil	M23-Jn0004171			X													
111	SB171_0.1-0.5	May 29, 2023		Soil	M23-Jn0004172			X													
112	SB171_1.0-1.2	May 29, 2023		Soil	M23-Jn0004173			X													
113	SB171_1.6-1.8	May 29, 2023		Soil	M23-Jn0004174			X													
114	SB171_2.8-3.0	May 29, 2023		Soil	M23-Jn0004175			X													
115	SB172_0.3-0.5	May 29, 2023		Soil	M23-Jn0004176			X													
116	SB172_1.0-1.1	May 29, 2023		Soil	M23-Jn0004177			X													
117	SB172_2.6-2.8	May 29, 2023		Soil	M23-Jn0004178			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
118	SB172_2.8-3.0	May 29, 2023		Soil	M23-Jn0004179			X													
119	DUP31	May 29, 2023		Soil	M23-Jn0004180							X				X					
120	SPLIT31	May 29, 2023		Soil	M23-Jn0004181	X															
121	DUP32	May 29, 2023		Soil	M23-Jn0004182			X													
122	SPLIT32	May 29, 2023		Soil	M23-Jn0004183			X													
123	SB76_1.7-2.0	May 29, 2023		Soil	M23-Jn0004184			X													
124	SB70_2.8-3.0	May 29, 2023		Soil	M23-Jn0004185			X													
125	SB81_0.8-1.0	May 29, 2023		Soil	M23-Jn0004186			X													
Test Counts						3	6	82	8	3	6	19	6	7	7	38	2	17	1	10	6

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	98			70-130	Pass	
TRH >C10-C16	%	103			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	85			70-130	Pass	
Acenaphthylene	%	106			70-130	Pass	
Anthracene	%	77			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	%	94			70-130	Pass	
Benzo(g.h.i)perylene	%	85			70-130	Pass	
Benzo(k)fluoranthene	%	126			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	75			70-130	Pass	
Fluorene	%	83			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	73			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	81			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	95			70-130	Pass	
4.4'-DDE	%	99			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-HCH	%	105			70-130	Pass	
Aldrin	%	85			70-130	Pass	
b-HCH	%	83			70-130	Pass	
d-HCH	%	87			70-130	Pass	
Dieldrin	%	83			70-130	Pass	
Endosulfan I	%	73			70-130	Pass	
Endosulfan II	%	73			70-130	Pass	
Endosulfan sulphate	%	107			70-130	Pass	
Endrin	%	76			70-130	Pass	
Endrin aldehyde	%	78			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	103			70-130	Pass	
Heptachlor	%	74			70-130	Pass	
Heptachlor epoxide	%	72			70-130	Pass	
Hexachlorobenzene	%	72			70-130	Pass	
Methoxychlor	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	96			80-120	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	%	104			80-120	Pass	
Copper	%	103			80-120	Pass	
Iron	%	119			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	113			80-120	Pass	
Nickel	%	103			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	80			70-130	Pass	
Ethion	%	115			70-130	Pass	
Fenitrothion	%	113			70-130	Pass	
Methyl parathion	%	86			70-130	Pass	
Mevinphos	%	82			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	109			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	121			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	101			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	91			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	103			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	97			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	109			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	105			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	116			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	103			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	87			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	100			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	106			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	122			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	95			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	120			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	122			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	103			50-150	Pass	

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	99			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	105			50-150	Pass	
LCS - % Recovery									
Organotins									
Tributyltin as Sn			%	96			60-140	Pass	
Dibutyltin as Sn			%	83			60-140	Pass	
Monobutyltin as Sn			%	97			60-140	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-Jn0004069	CP	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0004069	CP	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Jn0004069	CP	%	92			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0004069	CP	%	86			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0004069	CP	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-Jn0004069	CP	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-Jn0004069	CP	%	108			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Jn0004069	CP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Jn0004069	CP	%	95			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Jn0004069	CP	%	99			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Jn0004069	CP	%	105			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-Jn0004069	CP	%	96			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Jn0004069	CP	%	111			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Jn0004069	CP	%	98			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Jn0004069	CP	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Jn0004069	CP	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Jn0004069	CP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Jn0004069	CP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-Jn0004069	CP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Jn0004069	CP	%	74			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Jn0004069	CP	%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Jn0004069	CP	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Jn0004069	CP	%	95			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Jn0004069	CP	%	116			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0004069	CP	%	97			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	M23-Jn0004069	CP	%	101			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Jn0004069	CP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Jn0004069	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Jn0004069	CP	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Jn0004069	CP	%	134			50-150	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M23-Jn0004072	CP	%	88			70-130	Pass	
Ethion	M23-Jn0004072	CP	%	74			70-130	Pass	
Fenitrothion	M23-Jn0004072	CP	%	72			70-130	Pass	
Methyl parathion	M23-Jn0004072	CP	%	74			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Jn0004073	CP	%	79			75-125	Pass	
Cadmium	M23-Jn0004073	CP	%	81			75-125	Pass	
Chromium	M23-Jn0004073	CP	%	77			75-125	Pass	
Copper	M23-Jn0004073	CP	%	76			75-125	Pass	
Lead	M23-Jn0004073	CP	%	78			75-125	Pass	
Mercury	M23-Jn0004073	CP	%	102			75-125	Pass	
Nickel	M23-Jn0004073	CP	%	76			75-125	Pass	
Zinc	M23-Jn0004073	CP	%	78			75-125	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M23-Jn0004079	CP	%	106			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M23-Jn0004079	CP	%	67			60-140	Pass	
Dibutyltin as Sn	M23-Jn0004079	CP	%	106			60-140	Pass	
Monobutyltin as Sn	M23-Jn0004079	CP	%	100			60-140	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-Jn0004088	CP	%	91			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0004088	CP	%	82			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Jn0004088	CP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0004088	CP	%	87			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0004088	CP	%	98			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-Jn0004088	CP	%	95			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-Jn0004088	CP	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Jn0004088	CP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Jn0004088	CP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Jn0004088	CP	%	102			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Jn0004088	CP	%	92			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M23-Jn0004088	CP	%	77			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Jn0004088	CP	%	92			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Jn0004088	CP	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Jn0004088	CP	%	90			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Jn0004088	CP	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Jn0004088	CP	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Jn0004088	CP	%	97			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-Jn0004088	CP	%	69			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Jn0004088	CP	%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Jn0004088	CP	%	70			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Jn0004088	CP	%	80			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Jn0004088	CP	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Jn0004088	CP	%	130			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0004088	CP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Jn0004088	CP	%	116			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Jn0004088	CP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Jn0004088	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Jn0004088	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Jn0004088	CP	%	95			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Jn0004095	CP	%	88			75-125	Pass	
Cadmium	M23-Jn0004095	CP	%	82			75-125	Pass	
Chromium	M23-Jn0004095	CP	%	86			75-125	Pass	
Copper	M23-Jn0004095	CP	%	85			75-125	Pass	
Iron	M23-Jn0004095	CP	%	77			75-125	Pass	
Lead	M23-Jn0004095	CP	%	87			75-125	Pass	
Mercury	M23-Jn0004095	CP	%	104			75-125	Pass	
Nickel	M23-Jn0004095	CP	%	86			75-125	Pass	
Zinc	M23-Jn0004095	CP	%	83			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Jn0004069	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Jn0004069	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-Jn0004069	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Disulfoton	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-Jn0004069	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-Jn0004069	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-Jn0004069	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Jn0004069	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-Jn0004069	CP	pH Units	8.4	8.3	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0004072	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Jn0004072	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0004072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0004072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0004072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0004072	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0004072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0004072	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0004072	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0004072	CP	mg/kg	4.4	3.7	18	30%	Pass	
Cadmium	M23-Jn0004072	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0004072	CP	mg/kg	5.9	< 5	17	30%	Pass	
Copper	M23-Jn0004072	CP	mg/kg	13	12	5.3	30%	Pass	
Iron	M23-Jn0004072	CP	mg/kg	5200	4400	16	30%	Pass	
Lead	M23-Jn0004072	CP	mg/kg	< 5	5.2	11	30%	Pass	
Mercury	M23-Jn0004072	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0004072	CP	mg/kg	12	12	1.2	30%	Pass	
Zinc	M23-Jn0004072	CP	mg/kg	8.4	9.1	7.7	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0004072	CP	%	22	23	6.3	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-Jn0004072	CP	pH Units	13	13	pass	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-Jn0004072	CP	uS/cm	11000	11000	2.3	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0004073	CP	mg/kg	2.4	2.3	4.1	30%	Pass	
Cadmium	M23-Jn0004073	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0004073	CP	mg/kg	9.6	9.5	1.3	30%	Pass	
Copper	M23-Jn0004073	CP	mg/kg	6.7	6.6	1.3	30%	Pass	
Iron	M23-Jn0004073	CP	mg/kg	5900	6000	1.2	30%	Pass	
Lead	M23-Jn0004073	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M23-Jn0004073	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0004073	CP	mg/kg	5.5	5.4	1.7	30%	Pass	
Zinc	M23-Jn0004073	CP	mg/kg	8.2	8.8	7.7	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M23-Jn0004076	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M23-Jn0004076	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M23-Jn0004076	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M23-Jn0004076	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M23-Jn0004076	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M23-Jn0004076	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M23-Jn0004076	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0004082	CP	%	11	11	1.4	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0004083	CP	mg/kg	2.6	2.5	3.1	30%	Pass	
Cadmium	M23-Jn0004083	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0004083	CP	mg/kg	7.7	7.4	3.4	30%	Pass	
Copper	M23-Jn0004083	CP	mg/kg	5.3	5.4	1.8	30%	Pass	
Iron	M23-Jn0004083	CP	mg/kg	4300	4100	3.6	30%	Pass	
Lead	M23-Jn0004083	CP	mg/kg	6.3	6.1	2.8	30%	Pass	
Mercury	M23-Jn0004083	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0004083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	M23-Jn0004083	CP	mg/kg	27	30	9.8	30%	Pass	

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Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-Jn0004089	CP	pH Units	11	10	pass	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-Jn0004089	CP	uS/cm	4000	4000	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0004092	CP	%	18	18	1.8	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Jn0004095	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M23-Jn0004095	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Jn0004095	CP	mg/kg	6.8	6.8	1.3	30%	Pass	
Copper	M23-Jn0004095	CP	mg/kg	11	11	1.8	30%	Pass	
Iron	M23-Jn0004095	CP	mg/kg	3500	3500	1.8	30%	Pass	
Lead	M23-Jn0004095	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M23-Jn0004095	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Jn0004095	CP	mg/kg	9.0	9.2	2.5	30%	Pass	
Zinc	M23-Jn0004095	CP	mg/kg	6.7	7.3	7.9	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0004098	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-Jn0004098	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Jn0004098	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Jn0004098	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-Jn0004098	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-Jn0004098	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Jn0004098	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Jn0004098	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0004098	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Phenanthrene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Jn0004098	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Jn0004098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0004098	CP	%	14	16	11	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M23-Jn0004098	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M23-Jn0004098	CP	mg/kg	< 2	< 2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Naled	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M23-Jn0004098	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M23-Jn0004098	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Jn0004098	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Jn0004098	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Jn0004098	CP	ug/kg	< 10	< 10	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Jn0004098	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Jn0004098	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Inorganic
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **995383-W**
Project name URPS OSBORNE
Project ID 64648
Received Date May 31, 2023

Client Sample ID			**RB06**	**FB03**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M23-Jn0004099**	**M23-Jn0004100**
Date Sampled			**May 29, 2023**	**May 29, 2023**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	108	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB06	FB03
Sample Matrix			Water	Water
Eurofins Sample No.			M23-Jn0004099	M23-Jn0004100
Date Sampled			May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	91	93
13C5-PFPeA (surr.)	1	%	90	94
13C5-PFHxA (surr.)	1	%	103	102
13C4-PFHpA (surr.)	1	%	96	97
13C8-PFOA (surr.)	1	%	97	104
13C5-PFNA (surr.)	1	%	98	114
13C6-PFDA (surr.)	1	%	81	90
13C2-PFUnDA (surr.)	1	%	63	75
13C2-PFDoDA (surr.)	1	%	64	69
13C2-PFTeDA (surr.)	1	%	51	51
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	76	79
D3-N-MeFOSA (surr.)	1	%	66	61
D5-N-EtFOSA (surr.)	1	%	70	72
D7-N-MeFOSE (surr.)	1	%	113	103
D9-N-EtFOSE (surr.)	1	%	115	109
D5-N-EtFOSAA (surr.)	1	%	72	79
D3-N-MeFOSAA (surr.)	1	%	68	78
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB06	FB03
Sample Matrix			Water	Water
Eurofins Sample No.			M23-Jn0004099	M23-Jn0004100
Date Sampled			May 29, 2023	May 29, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	100	102
18O2-PFHxS (surr.)	1	%	93	98
13C8-PFOS (surr.)	1	%	79	88
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	98	98
13C2-6:2 FTSA (surr.)	1	%	61	66
13C2-8:2 FTSA (surr.)	1	%	92	106
13C2-10:2 FTSA (surr.)	1	%	69	69
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 02, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 02, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 02, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 05, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 02, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 995383
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 31, 2023 2:58 PM
Due: Jun 5, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	SB50_0.3-0.5	May 29, 2023		Soil	M23-Jn0004062					X				X		X		X			
2	SB50_1.7-2.0	May 29, 2023		Soil	M23-Jn0004063											X		X			
3	SB50_2.3-3.0	May 29, 2023		Soil	M23-Jn0004064							X				X					
4	SB53_0.2-0.5	May 29, 2023		Soil	M23-Jn0004065							X				X					
5	SB53_1.8-2.0	May 29, 2023		Soil	M23-Jn0004066							X				X					
6	SB73_0-0.2	May 29, 2023		Soil	M23-Jn0004067											X		X			
7	SB73_2.7-3.0	May 29, 2023		Soil	M23-Jn0004068							X				X					
8	SB74_0-0.2	May 29, 2023		Soil	M23-Jn0004069				X		X		X	X	X	X		X		X	
9	SB74_1.7-2.0	May 29, 2023		Soil	M23-Jn0004070	X															
10	SB75_0-0.2	May 29, 2023		Soil	M23-Jn0004071										X	X		X		X	
11	SB75_1.7-1.8	May 29, 2023		Soil	M23-Jn0004072				X		X		X	X		X		X			
12	SB75_2.3-2.5	May 29, 2023		Soil	M23-Jn0004073							X				X					

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Project ID: 64648

Order No.:
Report #: 995383
Phone: 08 8431 7113
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Received: May 31, 2023 2:58 PM
Due: Jun 5, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
13	SB76_0-0.2	May 29, 2023		Soil	M23-Jn0004074							X			X	X				X	
14	SB76_1.6-1.8	May 29, 2023		Soil	M23-Jn0004075							X				X					
15	SB76_1.9-2.0	May 29, 2023		Soil	M23-Jn0004076		X		X	X						X		X			X
16	SB77_0-0.2	May 29, 2023		Soil	M23-Jn0004077						X		X	X		X		X			
17	SB77_0.9-1.1	May 29, 2023		Soil	M23-Jn0004078							X				X					
18	SB77_2.4-2.6	May 29, 2023		Soil	M23-Jn0004079		X		X							X		X			X
19	SB77_2.8-3.0	May 29, 2023		Soil	M23-Jn0004080		X		X			X				X					X
20	SB79_0.3-0.5	May 29, 2023		Soil	M23-Jn0004081							X				X					
21	SB82_0-0.2	May 29, 2023		Soil	M23-Jn0004082							X				X					
22	SB83_0.3-0.5	May 29, 2023		Soil	M23-Jn0004083											X		X			
23	SB84_0.6-0.7	May 29, 2023		Soil	M23-Jn0004084				X		X		X	X		X		X			
24	SB87_0-0.2	May 29, 2023		Soil	M23-Jn0004085							X				X					
25	SB106_0-0.2	May 29, 2023		Soil	M23-Jn0004086											X		X		X	
26	SB106_2.1-2.3	May 29, 2023		Soil	M23-Jn0004087							X			X	X	X				
27	SB111_0-0.2	May 29, 2023		Soil	M23-Jn0004088										X	X				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
28	SB111_1.4-1.7	May 29, 2023		Soil	M23-Jn0004089				X		X		X	X		X		X			
29	SB167_1.3-1.6	May 29, 2023		Soil	M23-Jn0004090											X	X				
30	SB171_0-0.2	May 29, 2023		Soil	M23-Jn0004091										X	X		X		X	
31	SB171_1.3-1.5	May 29, 2023		Soil	M23-Jn0004092		X					X				X					X
32	SB171_2.2-2.5	May 29, 2023		Soil	M23-Jn0004093											X		X			
33	SB172_0-0.2	May 29, 2023		Soil	M23-Jn0004094							X			X	X				X	
34	SB172_1.2-1.5	May 29, 2023		Soil	M23-Jn0004095							X				X					
35	SB172_1.9-2.1	May 29, 2023		Soil	M23-Jn0004096		X		X		X		X	X		X		X			X
36	DUP11	May 29, 2023		Soil	M23-Jn0004097							X				X					
37	DUP30	May 29, 2023		Soil	M23-Jn0004098					X						X		X		X	
38	RB06	May 29, 2023		Water	M23-Jn0004099														X	X	
39	FB03	May 29, 2023		Water	M23-Jn0004100															X	
40	SB50_0-0.2	May 29, 2023		Soil	M23-Jn0004101			X													
41	SB50_0.8-1.0	May 29, 2023		Soil	M23-Jn0004102			X													
42	SB50_1.3-1.5	May 29, 2023		Soil	M23-Jn0004103			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
43	SB53_0-0.2	May 29, 2023		Soil	M23-Jn0004104			X													
44	SB53_0.5-0.8	May 29, 2023		Soil	M23-Jn0004105			X													
45	SB53_1.1-1.3	May 29, 2023		Soil	M23-Jn0004106			X													
46	SB73_0.3-0.5	May 29, 2023		Soil	M23-Jn0004107			X													
47	SB73_0.5-0.8	May 29, 2023		Soil	M23-Jn0004108			X													
48	SB73_1.3-1.8	May 29, 2023		Soil	M23-Jn0004109			X													
49	SB73_2.0-2.2	May 29, 2023		Soil	M23-Jn0004110			X													
50	SB73_2.4-2.6	May 29, 2023		Soil	M23-Jn0004111			X													
51	SB74_0.3-0.5	May 29, 2023		Soil	M23-Jn0004112			X													
52	SB74_0.5-0.8	May 29, 2023		Soil	M23-Jn0004113			X													
53	SB74_1.3-1.5	May 29, 2023		Soil	M23-Jn0004114		X					X				X					X
54	SB74_1.6-1.7	May 29, 2023		Soil	M23-Jn0004115			X													
55	SB74_2.6-3.0	May 29, 2023		Soil	M23-Jn0004116	X															
56	SB75_0.3-0.5	May 29, 2023		Soil	M23-Jn0004117			X													
57	SB75_1.0-1.3	May 29, 2023		Soil	M23-Jn0004118			X													

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Project Name: URPS OSBORNE
Project ID: 64648

Order No.:
Report #: 995383
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 31, 2023 2:58 PM
Due: Jun 5, 2023
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						CANCELLED	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
58	SB75_1.8-2.0	May 29, 2023		Soil	M23-Jn0004119			X													
59	SB75_2.8-3.0	May 29, 2023		Soil	M23-Jn0004120			X													
60	SB76_0.3-0.5	May 29, 2023		Soil	M23-Jn0004121			X													
61	SB76_0.6-0.8	May 29, 2023		Soil	M23-Jn0004122			X													
62	SB76_1.3-1.5	May 29, 2023		Soil	M23-Jn0004123			X													
63	SB76_2.5-2.7	May 29, 2023		Soil	M23-Jn0004124			X													
64	SB76_2.8-3.0	May 29, 2023		Soil	M23-Jn0004125			X													
65	SB77_0.3-0.5	May 29, 2023		Soil	M23-Jn0004126			X													
66	SB77_0.7-0.9	May 29, 2023		Soil	M23-Jn0004127			X													
67	SB77_1.6-1.7	May 29, 2023		Soil	M23-Jn0004128			X													
68	SB77_2.1-2.3	May 29, 2023		Soil	M23-Jn0004129			X													
69	SB78_0-0.2	May 29, 2023		Soil	M23-Jn0004130			X													
70	SB78_0.3-0.5	May 29, 2023		Soil	M23-Jn0004131			X													
71	SB78_0.8-1.0	May 29, 2023		Soil	M23-Jn0004132			X													
72	SB79_0-0.2	May 29, 2023		Soil	M23-Jn0004133			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
73	SB79_0.8-1.0	May 29, 2023		Soil	M23-Jn0004134			X													
74	SB80_0-0.2	May 29, 2023		Soil	M23-Jn0004135			X													
75	SB80_0.3-0.5	May 29, 2023		Soil	M23-Jn0004136			X													
76	SB80_0.8-1.0	May 29, 2023		Soil	M23-Jn0004137			X													
77	SB81_0-0.2	May 29, 2023		Soil	M23-Jn0004138			X													
78	SB81_0.3-0.5	May 29, 2023		Soil	M23-Jn0004139			X													
79	SB81_0.6-0.8	May 29, 2023		Soil	M23-Jn0004140			X													
80	SB82_0.6-0.8	May 29, 2023		Soil	M23-Jn0004141			X													
81	SB82_0.8-1.0	May 29, 2023		Soil	M23-Jn0004142			X													
82	SB83_0-0.2	May 29, 2023		Soil	M23-Jn0004143			X													
83	SB83_0.8-1.0	May 29, 2023		Soil	M23-Jn0004144			X													
84	SB84_0-0.2	May 29, 2023		Soil	M23-Jn0004145			X													
85	SB84_0.8-1.0	May 29, 2023		Soil	M23-Jn0004146			X													
86	SB85_0-0.2	May 29, 2023		Soil	M23-Jn0004147			X													
87	SB85_0.6-0.7	May 29, 2023		Soil	M23-Jn0004148			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
88	SB85_0.8-1.0	May 29, 2023		Soil	M23-Jn0004149			X													
89	SB86_0-0.2	May 29, 2023		Soil	M23-Jn0004150			X													
90	SB86_0.6-0.7	May 29, 2023		Soil	M23-Jn0004151			X													
91	SB86_0.8-1.0	May 29, 2023		Soil	M23-Jn0004152			X													
92	SB87_0.3-0.5	May 29, 2023		Soil	M23-Jn0004153			X													
93	SB87_0.6-0.8	May 29, 2023		Soil	M23-Jn0004154			X													
94	SB87_0.8-1.0	May 29, 2023		Soil	M23-Jn0004155			X													
95	SB100_0-0.2	May 29, 2023		Soil	M23-Jn0004156			X													
96	SB100_0.3-0.5	May 29, 2023		Soil	M23-Jn0004157			X													
97	SB100_0.8-1.0	May 29, 2023		Soil	M23-Jn0004158			X													
98	SB106_0.3-0.5	May 29, 2023		Soil	M23-Jn0004159			X													
99	SB106_1.0-1.3	May 29, 2023		Soil	M23-Jn0004160			X													
100	SB106_1.5-1.8	May 29, 2023		Soil	M23-Jn0004161			X													
101	SB106_1.9-2.1	May 29, 2023		Soil	M23-Jn0004162			X													
102	SB106_2.8-3.0	May 29, 2023		Soil	M23-Jn0004163			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
103	SB111_0.3-0.5	May 29, 2023		Soil	M23-Jn0004164			X													
104	SB111_0.8-1.1	May 29, 2023		Soil	M23-Jn0004165			X													
105	SB111_2.2-2.5	May 29, 2023		Soil	M23-Jn0004166			X													
106	SB111_2.7-3.0	May 29, 2023		Soil	M23-Jn0004167			X													
107	SB167_0-0.2	May 29, 2023		Soil	M23-Jn0004168			X													
108	SB167_0.3-0.6	May 29, 2023		Soil	M23-Jn0004169			X													
109	SB167_0.6-0.8	May 29, 2023		Soil	M23-Jn0004170			X													
110	SB167_1.9-2.0	May 29, 2023		Soil	M23-Jn0004171			X													
111	SB171_0.1-0.5	May 29, 2023		Soil	M23-Jn0004172			X													
112	SB171_1.0-1.2	May 29, 2023		Soil	M23-Jn0004173			X													
113	SB171_1.6-1.8	May 29, 2023		Soil	M23-Jn0004174			X													
114	SB171_2.8-3.0	May 29, 2023		Soil	M23-Jn0004175			X													
115	SB172_0.3-0.5	May 29, 2023		Soil	M23-Jn0004176			X													
116	SB172_1.0-1.1	May 29, 2023		Soil	M23-Jn0004177			X													
117	SB172_2.6-2.8	May 29, 2023		Soil	M23-Jn0004178			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794															X		X				
118	SB172_2.8-3.0	May 29, 2023		Soil	M23-Jn0004179			X													
119	DUP31	May 29, 2023		Soil	M23-Jn0004180							X				X					
120	SPLIT31	May 29, 2023		Soil	M23-Jn0004181	X															
121	DUP32	May 29, 2023		Soil	M23-Jn0004182			X													
122	SPLIT32	May 29, 2023		Soil	M23-Jn0004183			X													
123	SB76_1.7-2.0	May 29, 2023		Soil	M23-Jn0004184			X													
124	SB70_2.8-3.0	May 29, 2023		Soil	M23-Jn0004185			X													
125	SB81_0.8-1.0	May 29, 2023		Soil	M23-Jn0004186			X													
Test Counts						3	6	82	8	3	6	19	6	7	7	38	2	17	1	10	6

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	99			80-120	Pass	
Copper	%	101			80-120	Pass	
Lead	%	99			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	101			80-120	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Amy Meunier	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Tyrone Gowans

From: Amy Meunier
Sent: Wednesday, 14 June 2023 12:23 PM
To: Kate Lough
Cc: #AU_CAU001_EnviroSampleVic
Subject: RE: Eurofins Test Results - Report 995189 : Site URPS Osborne (64648)

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: ADDITIONALS

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Kate,

No problem at all,

Tyrone – additional analysis below STD TAT

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

#998606

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, 14 June 2023 11:57 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: RE: Eurofins Test Results - Report 995189 : Site URPS Osborne (64648)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy,

Can we please order the following additional analysis for this job? Please test the following additional sample:

- SB97_0.3-0.5 for TRH (standard t/a please) 2456 H359 A103

Thanks,
Kate

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd

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46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS Osborne
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	Jun 14, 2023 12:23 PM
Eurofins reference	998606

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✗	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **998606-S**
Project name URPS Osborne
Project ID 64648
Received Date Jun 14, 2023

Client Sample ID			**SB97_0.3-0.5**
Sample Matrix			**Soil**
Eurofins Sample No.			**M23-Jn0029884**
Date Sampled			**May 30, 2023**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
Sample Properties			
% Moisture	1	%	15

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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35 O'Rorke Road	43 Detroit Drive
Penrose,	Rolleston,
Auckland 1061	Christchurch 7675
Tel: +64 9 526 4551	Tel: +64 3 343 5201
IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 998606
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2023 12:23 PM
Due: Jun 21, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	SB97_0.3-0.5	May 30, 2023		Soil	M23-Jn0029884	X	X
Test Counts						1	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	90			70-130	Pass	
TRH C10-C14	%	77			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Jn0028155	NCP	%	98			70-130	Pass	
TRH C10-C14	M23-Jn0028248	NCP	%	73			70-130	Pass	
TRH C6-C10	M23-Jn0028155	NCP	%	99			70-130	Pass	
TRH >C10-C16	M23-Jn0028248	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Jn0028155	NCP	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0028114	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-Jn0031388	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Jn0031388	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Jn0031388	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-Jn0028114	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-Jn0031388	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Jn0031388	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Jn0031388	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0028114	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0030018	NCP	%	10	13	24	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

Catherine Wilson	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Sure thing we will get this organised, what TAT would you like?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, 14 June 2023 10:40 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: RE: Eurofins Test Results - Report 996096 : Site URPS Osborne (64648)

Hi Amy,

Can we please order the following additional analysis for this job? Please test the following additional samples:

- SB158_0.8-1.0 for TRH
- SB160_0.8-1.0 for TRH
- SB162_0.8-1.0 for TRH/BTEX/PAH
- SB162_1.0-1.3 and SB162_1.8-2.0 for VOCs and PAH

10904 4488 A203
0892 4853 A203
0895 488
806 6729 FH301
808

Thanks,
Kate

From: AmyMeunier@eurofins.com <AmyMeunier@eurofins.com>
Sent: Tuesday, June 13, 2023 4:49 PM
To: Kate Lough <klough@jbsg.com.au>
Subject: Eurofins Test Results - Report 996096 : Site URPS Osborne (64648)

Hi Kate,

Please find attached ***interim*** results (Excluding SPOCAS) for your project in the subject header.

Kind regards,

#998615

Amy Meunier
Analytical Services Manager

Tyrone Gowans

From: Amy Meunier
Sent: Wednesday, 14 June 2023 12:02 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Eurofins Test Results - Report 996096 : Site URPS Osborne (64648)

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: ADDITIONALS

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, 14 June 2023 11:00 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: RE: Eurofins Test Results - Report 996096 : Site URPS Osborne (64648)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Standard t/a please – thanks

From: Amy Meunier <AmyMeunier@eurofins.com>
Sent: Wednesday, June 14, 2023 10:23 AM
To: Kate Lough <klough@jbsg.com.au>
Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>
Subject: RE: Eurofins Test Results - Report 996096 : Site URPS Osborne (64648)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Hi Kate,

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

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NATA# 1261 Site# 20794

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Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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NATA# 2377 Site# 2370

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IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	URPS Osborne
Project ID:	64648
Turnaround time:	5 Day
Date/Time received	Jun 14, 2023 10:40 AM
Eurofins reference	998615

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✗	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

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Attention: **Kate Lough**

Report **998615-S**
Project name URPS Osborne
Project ID 64648
Received Date Jun 14, 2023

Client Sample ID			**SB158_0.8-1.0**	**SB160_0.8-1.0**	**SB162_0.8-1.0**	**SB162_1.0-1.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Jn0029998**	**M23-Jn0029999**	**M23-Jn0030000**	**M23-Jn0030001**
Date Sampled			**May 31, 2023**	**May 31, 2023**	**May 31, 2023**	**May 31, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	550	200	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	550	200	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	560	210	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	560	210	< 100	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Sample Properties						
% Moisture	1	%	3.0	4.2	2.7	9.8
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	68	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5

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Client Sample ID			SB158_0.8-1.0	SB160_0.8-1.0	SB162_0.8-1.0	SB162_1.0-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0029998	M23-Jn0029999	M23-Jn0030000	M23-Jn0030001
Date Sampled			May 31, 2023	May 31, 2023	May 31, 2023	May 31, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	101	88
p-Terphenyl-d14 (surr.)	1	%	-	-	117	70
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			SB158_0.8-1.0	SB160_0.8-1.0	SB162_0.8-1.0	SB162_1.0-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Jn0029998	M23-Jn0029999	M23-Jn0030000	M23-Jn0030001
Date Sampled			May 31, 2023	May 31, 2023	May 31, 2023	May 31, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	76
Toluene-d8 (surr.)	1	%	-	-	-	94

Client Sample ID			R16SB162_1.8-2.0
Sample Matrix			Soil
Eurofins Sample No.			M23-Jn0030002
Date Sampled			May 31, 2023
Test/Reference	LOR	Unit	
Sample Properties			
% Moisture	1	%	32
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5

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Client Sample ID			R16SB162_1.8-2.0
Sample Matrix			Soil
Eurofins Sample No.			M23-Jn0030002
Date Sampled			May 31, 2023
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Fluorene	0.5	mg/kg	8.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	61
Phenanthrene	0.5	mg/kg	5.8
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	75
2-Fluorobiphenyl (surr.)	1	%	71
p-Terphenyl-d14 (surr.)	1	%	140
Volatile Organics			
1.1-Dichloroethane	0.5	mg/kg	< 50
1.1-Dichloroethene	0.5	mg/kg	< 50
1.1.1-Trichloroethane	0.5	mg/kg	< 50
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 50
1.1.2-Trichloroethane	0.5	mg/kg	< 50
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 50
1.2-Dibromoethane	0.5	mg/kg	< 50
1.2-Dichlorobenzene	0.5	mg/kg	< 50
1.2-Dichloroethane	0.5	mg/kg	< 50
1.2-Dichloropropane	0.5	mg/kg	< 50
1.2.3-Trichloropropane	0.5	mg/kg	< 50
1.2.4-Trimethylbenzene	0.5	mg/kg	530
1.3-Dichlorobenzene	0.5	mg/kg	< 50
1.3-Dichloropropane	0.5	mg/kg	< 50
1.3.5-Trimethylbenzene	0.5	mg/kg	190
1.4-Dichlorobenzene	0.5	mg/kg	< 50
2-Butanone (MEK)	0.5	mg/kg	< 50
2-Propanone (Acetone)	0.5	mg/kg	< 50
4-Chlorotoluene	0.5	mg/kg	< 50
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 50
Allyl chloride	0.5	mg/kg	< 50
Benzene	0.1	mg/kg	< 10
Bromobenzene	0.5	mg/kg	< 50
Bromochloromethane	0.5	mg/kg	< 50
Bromodichloromethane	0.5	mg/kg	< 50
Bromoform	0.5	mg/kg	< 50
Bromomethane	0.5	mg/kg	< 50
Carbon disulfide	0.5	mg/kg	< 50
Carbon Tetrachloride	0.5	mg/kg	< 50
Chlorobenzene	0.5	mg/kg	< 50
Chloroethane	0.5	mg/kg	< 50
Chloroform	0.5	mg/kg	< 50
Chloromethane	0.5	mg/kg	< 50
cis-1.2-Dichloroethene	0.5	mg/kg	< 50
cis-1.3-Dichloropropene	0.5	mg/kg	< 50
Dibromochloromethane	0.5	mg/kg	< 50
Dibromomethane	0.5	mg/kg	< 50
Dichlorodifluoromethane	0.5	mg/kg	< 50
Ethylbenzene	0.1	mg/kg	200

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Client Sample ID			R16SB162_1.8-2.0
Sample Matrix			Soil
Eurofins Sample No.			M23-Jn0030002
Date Sampled			May 31, 2023
Test/Reference	LOR	Unit	
Volatile Organics			
Iodomethane	0.5	mg/kg	< 50
Isopropyl benzene (Cumene)	0.5	mg/kg	< 50
m&p-Xylenes	0.2	mg/kg	830
Methylene Chloride	0.5	mg/kg	< 50
o-Xylene	0.1	mg/kg	260
Styrene	0.5	mg/kg	< 50
Tetrachloroethene	0.5	mg/kg	< 50
Toluene	0.1	mg/kg	41
trans-1.2-Dichloroethene	0.5	mg/kg	< 50
trans-1.3-Dichloropropene	0.5	mg/kg	< 50
Trichloroethene	0.5	mg/kg	< 50
Trichlorofluoromethane	0.5	mg/kg	< 50
Vinyl chloride	0.5	mg/kg	< 50
Xylenes - Total*	0.3	mg/kg	1100
Total MAH*	0.5	mg/kg	1331
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 50
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 50
4-Bromofluorobenzene (surr.)	1	%	100
Toluene-d8 (surr.)	1	%	109

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
BTEX	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 14, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Volatile Organics	Melbourne	Jun 14, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			

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OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: URPS Osborne
Project ID: 64648

Order No.:
Report #: 998615
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2023 10:40 AM
Due: Jun 19, 2023
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Polycyclic Aromatic Hydrocarbons	BTEX	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	SB158_0.8-1.0	May 31, 2023		Soil	M23-Jn0029998				X	X
2	SB160_0.8-1.0	May 31, 2023		Soil	M23-Jn0029999				X	X
3	SB162_0.8-1.0	May 31, 2023		Soil	M23-Jn0030000	X	X		X	X
4	SB162_1.0-1.3	May 31, 2023		Soil	M23-Jn0030001	X		X	X	
5	SB162_1.8-2.0	May 31, 2023		Soil	M23-Jn0030002	X		X	X	
Test Counts						3	1	2	5	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	96			70-130	Pass	
TRH C10-C14	%	88			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	78			70-130	Pass	
Toluene	%	85			70-130	Pass	
Ethylbenzene	%	86			70-130	Pass	
m&p-Xylenes	%	88			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthene			%	130			70-130	Pass	
Acenaphthylene			%	84			70-130	Pass	
Anthracene			%	91			70-130	Pass	
Benz(a)anthracene			%	99			70-130	Pass	
Benzo(a)pyrene			%	82			70-130	Pass	
Benzo(b&j)fluoranthene			%	101			70-130	Pass	
Benzo(g.h.i)perylene			%	91			70-130	Pass	
Benzo(k)fluoranthene			%	116			70-130	Pass	
Chrysene			%	95			70-130	Pass	
Dibenz(a.h)anthracene			%	95			70-130	Pass	
Fluoranthene			%	88			70-130	Pass	
Fluorene			%	82			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	96			70-130	Pass	
Naphthalene			%	105			70-130	Pass	
Phenanthrene			%	98			70-130	Pass	
Pyrene			%	105			70-130	Pass	
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	75			70-130	Pass	
1.1.1-Trichloroethane			%	84			70-130	Pass	
1.2-Dichlorobenzene			%	85			70-130	Pass	
1.2-Dichloroethane			%	84			70-130	Pass	
Trichloroethene			%	104			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Jn0028159	NCP	%	102			70-130	Pass	
TRH C10-C14	M23-Jn0031190	NCP	%	111			70-130	Pass	
TRH C6-C10	M23-Jn0028159	NCP	%	94			70-130	Pass	
TRH >C10-C16	M23-Jn0031190	NCP	%	111			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Jn0028159	NCP	%	88			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Jn0028159	NCP	%	94			70-130	Pass	
Toluene	M23-Jn0028159	NCP	%	97			70-130	Pass	
Ethylbenzene	M23-Jn0028159	NCP	%	96			70-130	Pass	
m&p-Xylenes	M23-Jn0028159	NCP	%	97			70-130	Pass	
o-Xylene	M23-Jn0028159	NCP	%	97			70-130	Pass	
Xylenes - Total*	M23-Jn0028159	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Jn0028064	NCP	%	100			70-130	Pass	
Acenaphthylene	M23-Jn0028064	NCP	%	102			70-130	Pass	
Anthracene	M23-Jn0028064	NCP	%	88			70-130	Pass	
Benz(a)anthracene	M23-Jn0028064	NCP	%	78			70-130	Pass	
Benzo(a)pyrene	M23-Jn0028064	NCP	%	114			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Jn0028064	NCP	%	121			70-130	Pass	
Benzo(g.h.i)perylene	M23-Jn0028064	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	M23-Jn0028064	NCP	%	99			70-130	Pass	
Chrysene	M23-Jn0028064	NCP	%	110			70-130	Pass	
Dibenz(a.h)anthracene	M23-Jn0028064	NCP	%	87			70-130	Pass	
Fluoranthene	M23-Jn0028064	NCP	%	108			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	M23-Jn0028064	NCP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0028064	NCP	%	97			70-130	Pass	
Naphthalene	M23-Jn0028064	NCP	%	129			70-130	Pass	
Phenanthrene	M23-Jn0028064	NCP	%	77			70-130	Pass	
Pyrene	M23-Jn0028064	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Jn0031573	NCP	%	80			70-130	Pass	
1.1.1-Trichloroethane	M23-Jn0036570	NCP	%	89			70-130	Pass	
1.2-Dichlorobenzene	M23-Jn0031573	NCP	%	91			70-130	Pass	
1.2-Dichloroethane	M23-Jn0031573	NCP	%	85			70-130	Pass	
Trichloroethene	M23-Jn0036570	NCP	%	83			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Jn0029576	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-Jn0031191	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Jn0031191	NCP	mg/kg	60	< 50	67	30%	Fail	Q15
TRH C29-C36	M23-Jn0031191	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-Jn0029576	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-Jn0031191	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Jn0031191	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Jn0031191	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Jn0029576	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Jn0030018	NCP	%	10	13	24	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Jn0029576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Jn0029576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Jn0029576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Jn0029576	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Jn0029576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Jn0029576	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Jn0030001	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Jn0029568	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised by:

Amy Meunier	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

OFFICIAL

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

6

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Overnight
NAME: Jack Ayers	DATE: 23/5/23	NAME: Michael Young	DATE: 24/5/23	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Envirolab	TIME: 9:00am	
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:
Please forward results and invoice to: labresults@jbsg.com.au, kdough@jbsg.com.au

FOR LAB USE ONLY
COOLER SEAL
Yes ...... No ......
Broken ...... Intact ......
COOLER TEMP: deg.C

*Container Type and Preservative Codes: P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar, S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

ANALYSIS REQUIRED

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	NOTES
SB13_0-0.4	Soil	22/05/2023		soil jar	1	-					X		X		X		X			
SB13_0.4-0.8	Soil	22/05/2023		soil jar	1	-														
SB13_0.8-1.0	Soil	22/05/2023		soil jar	1	-														
SB14_0-0.2	Soil	22/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-		X	X	X										
SB14_0.5-0.8	Soil	22/05/2023		soil jar	1	-														
SB14_0.8-1.0	Soil	22/05/2023		soil jar	1	-		X												
SB15_0-0.2	Soil	22/05/2023		soil jar	1	-		X			X									
SB15_0.2-0.4	Soil	22/05/2023		soil jar	1	-		X												
SB15_0.6-1.0	Soil	22/05/2023		soil jar	1	-														
SB17_0-0.2	Soil	22/05/2023		soil jar	1	-														
SB17_0.2-0.5	Soil	22/05/2023		soil jar	1	-		X												
SB17_0.8-1.0	Soil	22/05/2023		soil jar	1	-														
SB20_0-0.2	Soil	22/05/2023		soil jar	1	-		X												
SB20_0.2-0.5	Soil	22/05/2023		soil jar	1	-														
SB20_0.8-1.0	Soil	22/05/2023		soil jar	1	-														
DUP01	Soil	22/05/2023		soil jar	1	-		X												
SPLIT01	Soil	22/05/2023		soil jar	1			X												PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB01	Water	22/05/2023		2xvials, 1x amber, 1x HM	4	-	X													
SB16_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X							
SB16_0.3-0.5	Soil	23/05/2023		soil jar	1	-														
SB16_0.7-1.0	Soil	23/05/2023		soil jar	1	-							X		X		X			
SB18_0-0.2	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X		X		X			
SB18_0.3-0.5	Soil	23/05/2023		soil jar	1	-														
SB18_0.7-1.0	Soil	23/05/2023		soil jar, SPOCAS bag	2	-				X										
SB19_0-0.2	Soil	23/05/2023		soil jar	1	-		X												
SB19_0.2-0.5	Soil	23/05/2023		soil jar	1	-		X			X									
SB19_0.7-1.0	Soil	23/05/2023		soil jar	1	-														
SB20_0-0.2	Soil	23/05/2023		soil jar	1	-		X												
SB20_0.3-0.5	Soil	23/05/2023		soil jar	1	-														
SB20_0.7-1.0	Soil	23/05/2023		soil jar	1	-														
SB21_0-0.2	Soil	23/05/2023		soil jar	1	-							X							

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500
Job No: 325741
Date Received: 26/5/23
Time Received: 12.30
Received By: GS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by: Emily 26/5/23 8:00

SS

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500
Job No:
Date Received: 26/5/23
Time Received: 12:30
Received By: AP
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

6

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S1	SAMPLERS: JA/AB/JB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 23/5/23	NAME: Michael Young	DATE: 24/5/23
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: Adelaide Eurofins	TIME: 9:00am
NAME:	DATE:	NAME:	DATE:
OF:	TIME:	OF:	TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au, klough@jbsg.com.au

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				
SB35_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB37_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB37_0.4-0.6	Soil	23/05/2023		soil jar	1	-												X	X				
SB37_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB39_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X									
SB39_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X										X	X				
SB39_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
SB40_0-0.2	Soil	23/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X			X	X				X	X				
SB40_0.3-0.5	Soil	23/05/2023		soil jar	1	-		X															
SB40_0.7-1.0	Soil	23/05/2023		soil jar	1	-																	
DUP02	Soil	23/05/2023		soil jar	1	-		X															
2 SPLIT02	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP03	Soil	23/05/2023		soil jar	1	-		X															
3 SPLIT03	Soil	23/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										
4 SPLIT04	Soil	23/05/2023		soil jar, PFAS jar	2	-			X				X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB02	Water	23/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB01	Water	23/05/2023		1x PFAS	1	-			X														
						TOTAL	2	33	14	9	11	0	23	7	6	0	6	8	8	0	0	0	

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

NOTES

relinquished by:
Emily
26/5/23 8:00

* On ice, in fridge 1.9 + 0.3

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37571

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Jordan Lyons
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648 URPS Osborne**
Number of Samples	4 Soil
Date samples received	26/05/2023
Date completed instructions received	26/05/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	02/06/2023
Date of Issue	02/06/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Phalak Inthakesone, Group Organics Manager
Suk Lee, Organic Supervisor
Tara White, Metals Team Leader
Tianna Milburn, Senior Chemist

Authorised By
Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		37571-4
Your Reference	UNITS	SPLIT04
Date Sampled		23/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	31/05/2023
vTRH C_6 - C_9	mg/kg	<25
vTRH C_6 - C_{10}	mg/kg	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	88

TRH Soil C10-C40 NEPM		
Our Reference		37571-4
Your Reference	UNITS	SPLIT04
Date Sampled		23/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	01/06/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	87

PAHs in Soil		
Our Reference		37571-4
Your Reference	UNITS	SPLIT04
Date Sampled		23/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	31/05/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d_{14}	%	82

Acid Extractable metals in soil					
Our Reference		37571-1	37571-2	37571-3	37571-4
Your Reference	UNITS	SPLIT01	SPLIT02	SPLIT03	SPLIT04
Date Sampled		22/05/2023	23/05/2023	23/05/2023	23/05/2023
Type of sample		Soil	Soil	Soil	Soil
Date digested	-	01/06/2023	01/06/2023	01/06/2023	01/06/2023
Date analysed	-	01/06/2023	01/06/2023	01/06/2023	01/06/2023
Arsenic	mg/kg	5	8	5	6
Cadmium	mg/kg	<0.4	0.7	<0.4	<0.4
Chromium	mg/kg	51	16	32	24
Copper	mg/kg	32	20	24	21
Lead	mg/kg	12	27	7	12
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	21	9	14	10
Zinc	mg/kg	35	34	21	27

PFAS in Soil Extended		
Our Reference		37571-4
Your Reference	UNITS	SPLIT04
Date Sampled		23/05/2023
Type of sample		Soil
Date prepared	-	01/06/2023
Date analysed	-	01/06/2023
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ PFOS	%	99
Surrogate $^{13}C_2$ PFOA	%	103
Extracted ISTD $^{13}C_3$ *PFBS*	%	89
Extracted ISTD $^{18}O_2$ *PFHxS*	%	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	84
Extracted ISTD $^{13}C_4$ *PFBA*	%	90

PFAS in Soil Extended		
Our Reference		37571-4
Your Reference	UNITS	SPLIT04
Date Sampled		23/05/2023
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	89
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	91
Extracted ISTD $^{13}C_4$ *PFOA*	%	88
Extracted ISTD $^{13}C_5$ *PFNA*	%	93
Extracted ISTD $^{13}C_2$ *PFDA*	%	99
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	104
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	110
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	134
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	83
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	93
Extracted ISTD $^{13}C_8$ *FOSA*	%	96
Extracted ISTD d_3 *N MeFOSA*	%	95
Extracted ISTD d_5 *NEtFOSA*	%	98
Extracted ISTD d_7 *N MeFOSE*	%	90
Extracted ISTD d_9 *N EtFOSE*	%	88
Extracted ISTD d_3 *N MeFOSAA*	%	83
Extracted ISTD d_5 *N EtFOSAA*	%	86
Total Positive PFHxS & PFOS	µg/kg	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1
Total Positive PFAS	µg/kg	<0.1

Moisture					
Our Reference		37571-1	37571-2	37571-3	37571-4
Your Reference	UNITS	SPLIT01	SPLIT02	SPLIT03	SPLIT04
Date Sampled		22/05/2023	23/05/2023	23/05/2023	23/05/2023
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	31/05/2023	31/05/2023	31/05/2023	31/05/2023
Date analysed	-	01/06/2023	01/06/2023	01/06/2023	01/06/2023
Moisture	%	31	8.7	14	13

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	[NT]	[NT]	[NT]	[NT]	31/05/2023	[NT]
Date analysed	-			31/05/2023	[NT]	[NT]	[NT]	[NT]	31/05/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	101	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	101	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	92	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	105	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	94	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	[NT]	[NT]	[NT]	[NT]	31/05/2023	[NT]
Date analysed	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	93	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	[NT]	[NT]	[NT]	[NT]	31/05/2023	[NT]
Date analysed	-			31/05/2023	[NT]	[NT]	[NT]	[NT]	31/05/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	80	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	80	[NT]	[NT]	[NT]	[NT]	86	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			01/06/2023	3	01/06/2023	01/06/2023		01/06/2023	[NT]
Date analysed	-			01/06/2023	3	01/06/2023	01/06/2023		01/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	3	5	<4	22	103	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	3	<0.4	<0.4	0	102	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	3	32	27	17	116	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	3	24	13	59	101	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	3	7	6	15	111	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	3	<0.1	<0.1	0	128	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	3	14	10	33	104	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	3	21	17	21	103	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37571-4
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	114	119
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	118	116
Perfluorohexanesulfonic acid PFHxS	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	99	119
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	119	119
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	4	<0.1	0.1	0	120	117
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	110	109
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	113	117
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	114	119
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	123	117
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	112	115
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	115	123
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	110	118
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	4	<0.5	<0.5	0	114	123
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	4	<0.5	<0.5	0	114	111
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	4	<0.5	<0.5	0	123	124
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	4	<0.5	<0.5	0	130	113
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	4	<5	<5	0	116	115
4:2 FTS	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	111	122
6:2 FTS	µg/kg	0.1	Org-029	<0.1	4	<0.1	<0.1	0	123	118
8:2 FTS	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	140	138
10:2 FTS	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	130	121
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	4	<1	<1	0	114	117
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	4	<1	<1	0	108	110
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	4	<1	<1	0	94	96
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	4	<1	<1	0	120	115
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	4	<5	<5	0	123	122
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	113	111
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	4	<0.2	<0.2	0	109	118
Surrogate $^{13}C_8$ PFOS	%		Org-029	111	4	99	94	5	104	99
Surrogate $^{13}C_2$ PFOA	%		Org-029	98	4	103	100	3	100	101
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	94	4	89	82	8	94	80

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37571-4
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	89	4	87	87	0	91	86
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	87	4	84	89	6	85	86
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	98	4	90	93	3	95	91
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	92	4	89	76	16	94	73
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	95	4	89	85	5	90	86
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	99	4	91	93	2	99	91
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	97	4	88	89	1	93	88
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	94	4	93	90	3	97	89
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	99	4	99	97	2	99	92
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	105	4	104	97	7	99	102
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	106	4	110	98	12	105	101
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	120	4	134	117	14	135	121
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	103	4	89	86	3	96	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	86	4	83	82	1	92	87
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	91	4	93	109	16	94	89
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	98	4	96	94	2	95	91
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	102	4	95	92	3	100	94
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	108	4	98	97	1	103	95
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	99	4	90	90	0	97	92
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	97	4	88	90	2	95	89

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37571-4
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	84	4	83	76	9	83	77
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	94	4	86	90	5	97	86

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

METALS: The RPD for duplicate results 37571-3 for Copper is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

8

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S2	SAMPLERS: AB/JB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Joel Bowes	DATE: 25/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME: JY EF	DATE: 29/05	NAME : DATE:
OF:	TIME: 7 Am	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au, klough@jbsg.com.au	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins					
SB47_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB47_0.3-0.5	Soil	25/05/2023		soil jar	1	-					X		X	X	X		X	X	X					
SB47_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB48_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB48_0.4-0.6	Soil	25/05/2023		soil jar	1	-																		
SB48_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB49_0.0-0.2	Soil	25/05/2023		soil jar	1	-		X																
SB49_0.2-0.3	Soil	25/05/2023		soil jar	1	-							X											
SB49_0.5-0.7	Soil	25/05/2023		soil jar	1	-																		
SB49_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB51_0.0-0.2	Soil	25/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X														
SB51_0.2-0.4	Soil	25/05/2023		soil jar	1	-					X		X	X	X		X	X	X					
SB51_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
SB52_0.0-0.2	Soil	25/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X	X		X	X	X		X	X	X					
SB52_0.3-0.5	Soil	25/05/2023		soil jar	1	-																		
SB52_0.8-1.0	Soil	25/05/2023		soil jar	1	-																		
RB03	Water	25/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X															
DUP05	Soil	25/05/2023		soil jar	1	-							X											
SPLIT05	Soil	25/05/2023		soil jar	1	-							X											f
DUP06	Soil	25/05/2023		soil jar, PFAS jar	2	-			X															
SPLIT06	Soil	25/05/2023		soil jar, PFAS jar	1	-			X															
				TOTAL			1	12	6	3	4	0	13	4	4	0	4	4	4	0	0	0		

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

*NOTES

ENVIROLAB

Envirolab Services
23 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 37599

Date Received: 29/5/23
Time Received: 12
Received By: CS
Temp: Cool/Ambient 7.3
Cooling: Ice/Icepack
Security: Intact/Broken/None

1 PLEASE SEND TO ENVIROLAB FOR ANALYSIS
2 PLEASE SEND TO ENVIROLAB FOR ANALYSIS

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37599

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Joel Bowes
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648 - URPS Osborne**
Number of Samples	2 Soil
Date samples received	29/05/2023
Date completed instructions received	29/05/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	05/06/2023
Date of Issue	05/06/2023

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vTRH(C6-C10)/BTEXN in Soil		
Our Reference		37599-1
Your Reference	UNITS	SPLIT05
Date Sampled		25/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	31/05/2023
vTRH C_6 - C_9	mg/kg	<25
vTRH C_6 - C_{10}	mg/kg	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	80

TRH Soil C10-C40 NEPM		
Our Reference		37599-1
Your Reference	UNITS	SPLIT05
Date Sampled		25/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	01/06/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	89

PAHs in Soil		
Our Reference		37599-1
Your Reference	UNITS	SPLIT05
Date Sampled		25/05/2023
Type of sample		Soil
Date extracted	-	31/05/2023
Date analysed	-	31/05/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d_{14}	%	82

Acid Extractable metals in soil		
Our Reference		37599-1
Your Reference	UNITS	SPLIT05
Date Sampled		25/05/2023
Type of sample		Soil
Date digested	-	02/06/2023
Date analysed	-	02/06/2023
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	10
Copper	mg/kg	8
Lead	mg/kg	6
Mercury	mg/kg	<0.1
Nickel	mg/kg	6
Zinc	mg/kg	10

PFAS in Soil Extended		
Our Reference		37599-2
Your Reference	UNITS	SPLIT06
Date Sampled		25/05/2023
Type of sample		Soil
Date prepared	-	01/06/2023
Date analysed	-	01/06/2023
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ PFOS	%	99
Surrogate $^{13}C_2$ PFOA	%	97
Extracted ISTD $^{13}C_3$ *PFBS*	%	83
Extracted ISTD $^{18}O_2$ *PFHxS*	%	83
Extracted ISTD $^{13}C_4$ *PFOS*	%	80
Extracted ISTD $^{13}C_4$ *PFBA*	%	86

PFAS in Soil Extended		
Our Reference		37599-2
Your Reference	UNITS	SPLIT06
Date Sampled		25/05/2023
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	82
Extracted ISTD $^{13}C_2$ *PFHxA*	%	82
Extracted ISTD $^{13}C_4$ *PFHpA*	%	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	87
Extracted ISTD $^{13}C_5$ *PFNA*	%	83
Extracted ISTD $^{13}C_2$ *PFDA*	%	88
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	88
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	91
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	97
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	79
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	83
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	84
Extracted ISTD $^{13}C_8$ *FOSA*	%	89
Extracted ISTD d_3 *N MeFOSA*	%	88
Extracted ISTD d_5 *NEtFOSA*	%	93
Extracted ISTD d_7 *N MeFOSE*	%	90
Extracted ISTD d_9 *N EtFOSE*	%	85
Extracted ISTD d_3 *N MeFOSAA*	%	71
Extracted ISTD d_5 *N EtFOSAA*	%	94
Total Positive PFHxS & PFOS	µg/kg	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1
Total Positive PFAS	µg/kg	<0.1

Moisture			
Our Reference		37599-1	37599-2
Your Reference	UNITS	SPLIT05	SPLIT06
Date Sampled		25/05/2023	25/05/2023
Type of sample		Soil	Soil
Date prepared	-	31/05/2023	31/05/2023
Date analysed	-	01/06/2023	01/06/2023
Moisture	%	19	31

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	1	31/05/2023	31/05/2023		31/05/2023	[NT]
Date analysed	-			31/05/2023	1	31/05/2023	31/05/2023		31/05/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	101	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	101	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	92	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	100	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	102	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	105	[NT]
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	101	[NT]
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	94	1	80	84	5	90	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	1	31/05/2023	31/05/2023		31/05/2023	[NT]
Date analysed	-			01/06/2023	1	01/06/2023	01/06/2023		01/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	94	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	99	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	94	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	99	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	93	[NT]
Surrogate o-Terphenyl	%		Org-020	93	1	89	91	2	83	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			31/05/2023	1	31/05/2023	31/05/2023		31/05/2023	[NT]
Date analysed	-			31/05/2023	1	31/05/2023	31/05/2023		31/05/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	80	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	80	1	82	82	0	86	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37599-1
Date digested	-			02/06/2023	1	02/06/2023	02/06/2023		02/06/2023	02/06/2023
Date analysed	-			02/06/2023	1	02/06/2023	02/06/2023		02/06/2023	02/06/2023
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	1	<4	<4	0	90	91
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	1	<0.4	<0.4	0	89	89
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	1	10	9	11	88	83
Copper	mg/kg	1	Metals-020 ICP-AES	<1	1	8	6	29	88	98
Lead	mg/kg	1	Metals-020 ICP-AES	<1	1	6	3	67	87	75
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	1	<0.1	<0.1	0	86	76
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	1	6	4	40	87	74
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	1	10	7	35	87	93

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	113	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	130	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	116	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	140	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	130	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	123	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	113	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	93	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	120	[NT]	[NT]	[NT]	[NT]	135	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	86	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	83	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	97	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

OFFICIAL

COPY ③

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S3	SAMPLERS: AB/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		
NAME: Kate Lough	DATE: 26/5/23	NAME:	DATE:	METHOD OF SHIPMENT: Overnight
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF:	TIME:	CONSIGNMENT NOTE NO.
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

FOR LAB USE ONLY
COOLER SEAL
Yes ...... No ......
Broken ...... Intact ....
COOLER TEMP: deg.C

*Container Type and Preservative Codes: P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				NOTES
SB169_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.0-0.2	Soil	25/05/2023		Soil Jar	1	-																	
SB170_0.3-0.5	Soil	25/05/2023		Soil Jar	1	-									X			X	X				
SB170_0.5-0.7	Soil	25/05/2023		Soil Jar	1	-		X															
SB170_0.8-1.0	Soil	25/05/2023		Soil Jar	1	-																	
DUP07	Soil	25/05/2023		Soil Jar	1	-		X															
SPLIT07	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP08	Soil	25/05/2023		Soil Jar	1	-		X															
SPLIT08	Soil	25/05/2023		Soil Jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB04	Water	25/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X																
						TOTAL	1	14	0	0	4	0	8	4	3	1	3	3	3	0	0	0	

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 37623
Date Received: 30/5/23
Time Received: 12:30
Received By: [illegible]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by Jessica S EF 8am 30/5

1

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37623

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648**
Number of Samples	2 Soil
Date samples received	30/05/2023
Date completed instructions received	30/05/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	06/06/2023
Date of Issue	06/06/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Tara White, Metals Team Leader

Authorised By
Pamela Adams, Laboratory Manager

Acid Extractable metals in soil			
Our Reference		37623-1	37623-2
Your Reference	UNITS	SPLIT07	SPLIT08
Date Sampled		25/05/2023	25/05/2023
Type of sample		Soil	Soil
Date digested	-	02/06/2023	02/06/2023
Date analysed	-	02/06/2023	02/06/2023
Arsenic	mg/kg	5	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	17	9
Copper	mg/kg	23	11
Lead	mg/kg	15	21
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	8	5
Zinc	mg/kg	25	29

Moisture			
Our Reference		37623-1	37623-2
Your Reference	UNITS	SPLIT07	SPLIT08
Date Sampled		25/05/2023	25/05/2023
Type of sample		Soil	Soil
Date prepared	-	01/06/2023	01/06/2023
Date analysed	-	02/06/2023	02/06/2023
Moisture	%	17	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37623-2
Date digested	-			02/06/2023	1	02/06/2023	02/06/2023		02/06/2023	02/06/2023
Date analysed	-			02/06/2023	1	02/06/2023	02/06/2023		02/06/2023	02/06/2023
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	1	5	5	0	108	115
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	1	<0.4	<0.4	0	109	84
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	1	17	14	19	108	100
Copper	mg/kg	1	Metals-020 ICP-AES	<1	1	23	38	49	103	117
Lead	mg/kg	1	Metals-020 ICP-AES	<1	1	15	21	33	102	85
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	1	<0.1	<0.1	0	97	95
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	1	8	7	13	107	87
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	1	25	29	15	109	72

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
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Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
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Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

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Measurement Uncertainty estimates are available for most tests upon request.

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Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

METALS: The RPD for duplicate results 37623-1 for Copper is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

DATA QUALITY ASSESSMENT SUMMARY

Report Details

Envirolab Report Reference	**37623**
Client ID	JBS & G Australia Pty Ltd
Project Reference	64648
Date Issued	06/06/2023

QC DATA

All laboratory QC data was within the Envirolab Group's specifications except:

QC Specification Exceptions

QC Type	Reference	Analysis	Comments
Precision (as %RPD)	37623-1	Copper	49% RPD fails internal acceptance criteria

See Report 37623-[R00] for QA/QC details

HOLDING TIME COMPLIANCE EVALUATION

All preservation / holding times (based on AS/ASPHA/ISO/NEPM/USEPA reference documents and standards) are compliant.

Certain analyses have had their recommended technical holding times elongated by filtering and/or freezing on receipt at the laboratory (e.g. BOD, chlorophyll/Pheophytin, nutrients and acid sulphate soil tests).

COMPLIANCE TO QC FREQUENCY (NEPM)

Internal laboratory QC rate complies with NEPM requirements (LCS/MB/MS 1 in 20, Duplicates 1 in 10 samples). Note, samples are batched together with other sample consignments in order to assign QC sample frequency.

QC Evaluation

Duplicate(s) was performed as per NEPM frequency	✓
Laboratory Control Sample(s) were analysed with the samples received	✓
A Method Blank was performed with the samples received	✓
Matrix spike(s) was performed as per NEPM frequency (Not Applicable for Air samples)	✓

Refer to Certificate of Analysis for all Quality Control data.

#37636

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

7

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S4	SAMPLERS: JA/AJ	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 26/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME:
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	

COPY

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins				'NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB70_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB71_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB71_0.7-0.8	Soil	26/05/2023	-	soil jar	1	-							X										
SB71_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB72_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB72_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB72_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
SB88_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.4-0.7	Soil	26/05/2023	-	soil jar	1	-																	
SB88_0.8-1.0	Soil	26/05/2023	-	soil jar	1	-																	
SB89_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-		X	X														
SB89_0.5-0.7	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB89_0.7-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X			X			X							
SB93_0-0.2	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB93_0.7-1.0	Soil	26/05/2023	-	soil jar	1	-		X															
SB94_0-0.2	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SB94_0.3-0.5	Soil	26/05/2023	-	soil jar	1	-																	
SB94_0.5-0.8	Soil	26/05/2023	-	soil jar	1	-					X		X	X	X		X						
SB94_0.8-1.0	Soil	26/05/2023	-	soil jar, SPOCAS bag	2	-				X													
DUP09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										
SPLIT09	Soil	26/05/2023	-	soil jar, PFAS jar	2	-			X				X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
RB05	Water	26/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1	-	X		X														
FB02	Water	26/05/2023	-						X														
						TOTAL	1	12	10	6	6	0	14	4	4	2	4	4	4	0	0	0	

relinquished by:
Emily
31/05/23 8:00a

OFFICIAL

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 37636
Date Received: 31/5/23
Time Received: 10:40
Received By: AP
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

5.6

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37636

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648**
Number of Samples	1 Soil
Date samples received	31/05/2023
Date completed instructions received	31/05/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	07/06/2023
Date of Issue	05/06/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Azrin Akram, Senior Chemist
Tara White, Metals Team Leader
Tianna Milburn, Senior Chemist

Authorised By
Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date extracted	-	01/06/2023
Date analysed	-	01/06/2023
vTRH C_6 - C_9	mg/kg	<25
vTRH C_6 - C_{10}	mg/kg	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	88

TRH Soil C10-C40 NEPM		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date extracted	-	01/06/2023
Date analysed	-	02/06/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	90

PAHs in Soil		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date extracted	-	01/06/2023
Date analysed	-	02/06/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d_{14}	%	74

Acid Extractable metals in soil		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date digested	-	02/06/2023
Date analysed	-	02/06/2023
Arsenic	mg/kg	4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	11
Copper	mg/kg	9
Nickel	mg/kg	5
Lead	mg/kg	9
Zinc	mg/kg	17
Mercury	mg/kg	<0.1

PFAS in Soil Extended		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date prepared	-	01/06/2023
Date analysed	-	01/06/2023
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ PFOS	%	103
Surrogate $^{13}C_2$ PFOA	%	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	85
Extracted ISTD $^{13}C_4$ *PFOS*	%	82
Extracted ISTD $^{13}C_4$ *PFBA*	%	91

PFAS in Soil Extended		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	84
Extracted ISTD $^{13}C_4$ *PFHpA*	%	90
Extracted ISTD $^{13}C_4$ *PFOA*	%	90
Extracted ISTD $^{13}C_5$ *PFNA*	%	87
Extracted ISTD $^{13}C_2$ *PFDA*	%	97
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	95
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	94
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	104
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	84
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	77
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94
Extracted ISTD $^{13}C_8$ *FOSA*	%	90
Extracted ISTD d_3 *N MeFOSA*	%	94
Extracted ISTD d_5 *NEtFOSA*	%	96
Extracted ISTD d_7 *N MeFOSE*	%	91
Extracted ISTD d_9 *N EtFOSE*	%	92
Extracted ISTD d_3 *N MeFOSAA*	%	80
Extracted ISTD d_5 *N EtFOSAA*	%	88
Total Positive PFHxS & PFOS	µg/kg	0.2
Total Positive PFOS & PFOA	µg/kg	0.2
Total Positive PFAS	µg/kg	0.2

Moisture		
Our Reference		37636-1
Your Reference	UNITS	SPLIT09
Date Sampled		26/05/2023
Type of sample		Soil
Date prepared	-	01/06/2023
Date analysed	-	02/06/2023
Moisture	%	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
Date analysed	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	92	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	90	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	88	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	96	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
Date analysed	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	88	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	88	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	85	[NT]	[NT]	[NT]	[NT]	77	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			01/06/2023	[NT]	[NT]	[NT]	[NT]	01/06/2023	[NT]
Date analysed	-			02/06/2023	[NT]	[NT]	[NT]	[NT]	02/06/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	84	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			02/06/2023	[NT]	[NT]	[NT]	[NT]	02/06/2023	[NT]
Date analysed	-			02/06/2023	[NT]	[NT]	[NT]	[NT]	02/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	108	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	109	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	113	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	130	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	116	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	127	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	130	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	123	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	113	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	93	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	120	[NT]	[NT]	[NT]	[NT]	135	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	86	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	83	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	97	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: + 61 8 84317113 · F: + 61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S5	SAMPLERS: JA/JB/AB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 29/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au, klough@jbsg.com.au		

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																					
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL class suite)								NOTES
SB171_1.0-1.2	Soil	29/05/2023	-	soil jar	1																							
SB171_1.3-1.5	Soil	29/05/2023	-	soil jar	1			X										X	X									
SB171_1.6-1.8	Soil	29/05/2023	-	soil jar	1																							
SB171_2.2-2.5	Soil	29/05/2023	-	soil jar	1								X															
SB171_2.8-3.0	Soil	29/05/2023	-	soil jar	1																							
SB172_0-0.2	Soil	29/05/2023	-	soil jar, PFAS jar, SPOCAS bag	3			X	X	X																		
SB172_0.3-0.5	Soil	29/05/2023	-	soil jar	1																							
SB172_1.0-1.1	Soil	29/05/2023	-	soil jar	1																							
SB172_1.2-1.5	Soil	29/05/2023	-	soil jar	1			X																				
SB172_1.9-2.1	Soil	29/05/2023	-	soil jar	1						X		X	X	X		X	X	X									
SB172_2.6-2.8	Soil	29/05/2023	-	soil jar	1																							
SB172_2.8-3.0	Soil	29/05/2023	-	soil jar	1																							
DUP11	Soil	29/05/2023	-	soil jar	1			X																				
1 SPLIT11	Soil	29/05/2023	-	soil jar	1			X																				PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP30	Soil	29/05/2023	-	soil jar	1				X				X			X												
2 SPLIT30	Soil	29/05/2023	-	soil jar	1				X				X			X												PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP31	Soil	29/05/2023	-	soil jar	1																							
SPLIT31	Soil	29/05/2023	-	soil jar	1																							
DUP32	Soil	29/05/2023	-	soil jar	1																							
SPLIT32	Soil	29/05/2023	-	soil jar	1																							
RB06	Water	29/05/2023	-	2xvials, 1x amber, 1x HM, 1x PFAS	1		X		X																			
FB03	Water	29/05/2023	-	1x PFAS	1				X																			
						TOTAL	1	19	11	7	8	0	18	7	6	4	6	6	6	2	0	0						

*Container Type and Preservative Codes:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 37884
Date Received: 29/5/23
Time Received: 12:30pm
Received By: AG
Temp: Cool/Ambient 7.4
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by Jessica
@ 2/6 8am

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37684

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648 URPS Osbourne**
Number of Samples	2 Soil
Date samples received	02/06/2023
Date completed instructions received	02/06/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	09/06/2023
Date of Issue	07/06/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Azrin Akram, Senior Chemist
Suk Lee, Organic Supervisor
Tara White, Metals Team Leader
Tianna Milburn, Senior Chemist

Authorised By
Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
vTRH C_6 - C_9	mg/kg	<25
vTRH C_6 - C_{10}	mg/kg	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	115

TRH Soil C10-C40 NEPM		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	83

PAHs in Soil		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d_{14}	%	112

OCP in Soil		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
alpha-BHC	mg/kg	<0.1
Hexachlorobenzene	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve reported Aldrin + Dieldrin	mg/kg	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1
Surrogate 2-chlorophenol-d4	%	96

Acid Extractable metals in soil			
Our Reference		37684-1	37684-2
Your Reference	UNITS	Split11	Split30
Date Sampled		29/05/2023	29/05/2023
Type of sample		Soil	Soil
Date digested	-	05/06/2023	05/06/2023
Date analysed	-	05/06/2023	05/06/2023
Arsenic	mg/kg	4	4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	11	9
Copper	mg/kg	11	12
Lead	mg/kg	17	22
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	6	5
Zinc	mg/kg	23	26

Moisture			
Our Reference		37684-1	37684-2
Your Reference	UNITS	Split11	Split30
Date Sampled		29/05/2023	29/05/2023
Type of sample		Soil	Soil
Date prepared	-	05/06/2023	05/06/2023
Date analysed	-	06/06/2023	06/06/2023
Moisture	%	13	15

PFAS in Soil Extended		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Date prepared	-	05/06/2023
Date analysed	-	05/06/2023
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ PFOS	%	100
Surrogate $^{13}C_2$ PFOA	%	101
Extracted ISTD $^{13}C_3$ *PFBS*	%	84
Extracted ISTD $^{18}O_2$ *PFHxS*	%	84
Extracted ISTD $^{13}C_4$ *PFOS*	%	81
Extracted ISTD $^{13}C_4$ *PFBA*	%	89

PFAS in Soil Extended		
Our Reference		37684-2
Your Reference	UNITS	Split30
Date Sampled		29/05/2023
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	84
Extracted ISTD $^{13}C_4$ *PFHpA*	%	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	88
Extracted ISTD $^{13}C_5$ *PFNA*	%	87
Extracted ISTD $^{13}C_2$ *PFDA*	%	89
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	97
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	141
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	86
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	93
Extracted ISTD $^{13}C_8$ *FOSA*	%	90
Extracted ISTD d_3 *N MeFOSA*	%	85
Extracted ISTD d_5 *NEtFOSA*	%	87
Extracted ISTD d_7 *N MeFOSE*	%	93
Extracted ISTD d_9 *N EtFOSE*	%	87
Extracted ISTD d_3 *N MeFOSAA*	%	78
Extracted ISTD d_5 *N EtFOSAA*	%	90
Total Positive PFHxS & PFOS	µg/kg	0.2
Total Positive PFOS & PFOA	µg/kg	0.2
Total Positive PFAS	µg/kg	0.2

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Note, For OCs the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	102	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	89	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	87	[NT]	[NT]	[NT]	[NT]	80	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	136	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	114	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	136	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	128	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	132	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	134	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	132	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	88	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	104	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37684-2
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	116	117
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	118	121
Perfluorohexanesulfonic acid PFHxS	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	118	124
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	117	121
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	2	0.2	0.3	40	120	122
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	107	110
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	112	112
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	116	115
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	117	120
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	112	110
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	118	113
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	112	111
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	2	<0.5	<0.5	0	113	113
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	2	<0.5	<0.5	0	116	120
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	2	<0.5	<0.5	0	115	120
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	2	<0.5	<0.5	0	136	131
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	2	<5	<5	0	121	122
4:2 FTS	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	115	113
6:2 FTS	µg/kg	0.1	Org-029	<0.1	2	<0.1	<0.1	0	115	119
8:2 FTS	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	122	118
10:2 FTS	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	118	126
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	2	<1	<1	0	116	114
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	2	<1	<1	0	115	111
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	2	<1	<1	0	107	103
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	2	<1	<1	0	109	116
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	2	<5	<5	0	122	123
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	111	108
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	2	<0.2	<0.2	0	110	121
Surrogate $^{13}C_8$ PFOS	%		Org-029	104	2	100	99	1	102	102
Surrogate $^{13}C_2$ PFOA	%		Org-029	98	2	101	101	0	104	100
Extracted ISTD $^{13}C_3$ PFBS	%		Org-029	85	2	84	83	1	87	81

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37684-2
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	84	2	84	83	1	87	78
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	79	2	81	79	2	82	77
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	93	2	89	89	0	93	86
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	90	2	87	86	1	89	83
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	86	2	84	83	1	87	80
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	90	2	89	87	2	91	86
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	89	2	88	85	3	87	84
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	92	2	87	86	1	90	85
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	88	2	89	94	5	91	86
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	86	2	91	91	0	90	84
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	89	2	97	95	2	93	90
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	114	2	141	138	2	123	136
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	87	2	89	87	2	89	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	84	2	86	88	2	90	83
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	96	2	93	126	30	98	94
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	92	2	90	87	3	88	84
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	85	2	85	82	4	90	82
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	91	2	87	84	4	91	86
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	86	2	93	81	14	93	81
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	86	2	87	85	2	89	80

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37684-2
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	80	2	78	74	5	89	85
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	88	2	90	94	4	94	86

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

COPY

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CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S6	SAMPLERS: JB/AJ/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 30/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME. M.A

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	Please forward results and Invoice to: labresults@jbsg.com.au, klough@jbsg.com.au

ANALYSIS REQUIRED

SAMPLE DATA				CONTAINER DATA			B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)			NOTES
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
SB173_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB173_0.4-0.6	Soil	30/05/2023		soil jar	1	-																	
SB173_1.1-1.3	Soil	30/05/2023		soil jar	1	-																	
SB173_1.8-2.0	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB173_2.1-2.4	Soil	30/05/2023		soil jar	1	-																	
SB173_2.7-3.0	Soil	30/05/2023		soil jar	1	-																	
SB174_0.0-0.2	Soil	30/05/2023		soil jar, PFAS jar, SPOCAS bag	3	-			X	X													
SB174_0.3-0.6	Soil	30/05/2023		soil jar	1	-																	
SB174_1.0-1.2	Soil	30/05/2023		soil jar	1	-																	
SB174_1.3-1.5	Soil	30/05/2023		soil jar	1	-							X	X	X		X						
SB174_1.5-1.7	Soil	30/05/2023		soil jar	1	-																	
SB174_1.7-1.9	Soil	30/05/2023		soil jar	1	-		X										X	X				
SB174_2.7-3.0	Soil	30/05/2023		2x soil jar	2	-														X			
DUP12	Soil	30/05/2023		soil jar	1	-							X										
DUP13	Soil	30/05/2023		PFAS jar	1	-																	
DUP14	Soil	30/05/2023		soil jar	1	-		X															
1 SPLIT12	Soil	30/05/2023		soil jar	1	-							X										PLEASE SEND TO ENVIROLAB FOR ANALYSIS
2 SPLIT14	Soil	30/05/2023		soil jar	1	-		X															PLEASE SEND TO ENVIROLAB FOR ANALYSIS.
RB07	Water	30/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB04	Water	30/05/2023		1x PFAS	1	-			X														
						TOTAL	1	26	17	16	0	0	24	11	8	3	8	11	11	1	0	0	

*Container Type and Preservative Codes:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

Relinquished by Jessica-J 6f 8am 2/6

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 37686
Date Received: 2/6/23
Time Received: 12:30
Received By: AP
Temp: Cool/Ambient 10.2
Cooling: Ice/Icepack
Security: Intact/Broken/None

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37686

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648 URPS Osborne**
Number of Samples	2 Soil
Date samples received	02/06/2023
Date completed instructions received	02/06/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	09/06/2023
Date of Issue	11/07/2023
Reissue Details	This report supersedes 37686_R00 due to renalaysis of sample #2 for Nickel and Zinc.

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Chris De Luca, Assistant Lab Manager
Suk Lee, Organic Supervisor
Tianna Milburn, Senior Chemist

Authorised By
Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		37686-1
Your Reference	UNITS	SPLIT12
Date Sampled		30/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
vTRH C_6 - C_9	mg/kg	<25
vTRH C_6 - C_{10}	mg/kg	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	106

TRH Soil C10-C40 NEPM		
Our Reference		37686-1
Your Reference	UNITS	SPLIT12
Date Sampled		30/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	87

PAHs in Soil		
Our Reference		37686-1
Your Reference	UNITS	SPLIT12
Date Sampled		30/05/2023
Type of sample		Soil
Date extracted	-	05/06/2023
Date analysed	-	05/06/2023
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d_{14}	%	112

Acid Extractable metals in soil			
Our Reference		37686-1	37686-2
Your Reference	UNITS	SPLIT12	SPLIT14
Date Sampled		30/05/2023	30/05/2023
Type of sample		Soil	Soil
Date digested	-	05/06/2023	05/06/2023
Date analysed	-	05/06/2023	05/06/2023
Arsenic	mg/kg	4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	11	6
Copper	mg/kg	11	8
Lead	mg/kg	20	8
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	6	5
Zinc	mg/kg	26	8

Moisture			
Our Reference		37686-1	37686-2
Your Reference	UNITS	SPLIT12	SPLIT14
Date Sampled		30/05/2023	30/05/2023
Type of sample		Soil	Soil
Date prepared	-	05/06/2023	05/06/2023
Date analysed	-	06/06/2023	06/06/2023
Moisture	%	16	16

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	102	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	89	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	87	[NT]	[NT]	[NT]	[NT]	80	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Date analysed	-			05/06/2023	[NT]	[NT]	[NT]	[NT]	05/06/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	136	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	114	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			05/06/2023	2	05/06/2023	05/06/2023		05/06/2023	[NT]
Date analysed	-			05/06/2023	2	05/06/2023	05/06/2023		05/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	2	<4	<4	0	104	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	2	<0.4	<0.4	0	101	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	2	6	6	0	102	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	2	8	13	48	102	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	2	8	3	91	101	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	2	<0.1	<0.1	0	94	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	2	5	4	22	100	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	2	8	8	0	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

METALS: The RPD for duplicate results 37686-2 for Copper and Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S7	SAMPLERS: AB/AJ/JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 64648	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 31/5/23	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact ....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au, klough@jbsg.com.au

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																		
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)	B1 (TRH/BTEX)				
SB129_0.0-0.2	Soil	31/05/2023		soil jar	1	-		X			X														
SB129_0.3-0.5	Soil	31/05/2023		soil jar	1	-																			
SB129_0.8-1.0	Soil	31/05/2023		soil jar	1	-																			
SB129_1.5-1.7	Soil	31/05/2023		soil jar	1	-																			
SB129_2.0-2.3	Soil	31/05/2023		soil jar	1	-																			
SB129_2.4-2.6	Soil	31/05/2023		soil jar	1	-																			
SB129_2.8-3.0	Soil	31/05/2023		soil jar	1	-																			
SB128_0..0-0.2	Soil	31/05/2023		soil jar, SPOCAS bag, PFAS Jar	3	-		X	X																
SB128_0.2-0.5	Soil	31/05/2023		soil jar	1	-					X		X	X	X		X	X	X						
SB128_1.0-1.3	Soil	31/05/2023		soil jar	1	-																			
SB128_1.7-2.0	Soil	31/05/2023		soil jar	1	-		X																	
SB128_2.5-2.7	Soil	31/05/2023		soil jar	1	-																			
SB128_2.8-3.0	Soil	31/05/2023		soil jar, SPOCAS bag	2	-				X															
SB119_0.0-0.2	Soil	31/05/2023		soil jar	1	-																			
SB119_0.2-0.5	Soil	31/05/2023		soil jar	1	-																			
SB119_0.7-1.0	Soil	31/05/2023		soil jar	1	-																			
SB116_0.0-0.2	Soil	31/05/2023		soil jar, PFAS jar	2	-			X																
SB116_0.3-0.5	Soil	31/05/2023		soil jar	1	-																			
SB116_0.7-1.0	Soil	31/05/2023		soil jar, SPOCAS bag	2	-		X		X															
SB105_0.0-0.2	Soil	31/05/2023		soil jar, PFAS jar	2	-			X																
SB105_0.3-0.5	Soil	31/05/2023		soil jar	1	-					X		X	X	X		X								
SB105_0.7-1.0	Soil	31/05/2023		soil jar, SPOCAS bag	2	-				X															
SB117_0.0-0.2	Soil	31/05/2023		soil jar	1	-																			
SB117_0.3-0.5	Soil	31/05/2023		soil jar	1	-																			
SB117_0.7-1.0	Soil	31/05/2023		soil jar	1	-																			
SB118_0.0-0.2	Soil	31/05/2023		soil jar	1	-		X			X		X	X	X		X								
SB118_0.3-0.6	Soil	31/05/2023		soil jar	1	-		X										X	X						
SB118_0.8-1.0	Soil	31/05/2023		soil jar	1	-																			
SB120_0.0-0.2	Soil	31/05/2023		soil jar	1	-																			
SB120_0.3-0.5	Soil	31/05/2023		soil jar	1	-																			
SB120_0.5-0.7	Soil	31/05/2023		soil jar	1	-					X		X	X	X		X								
SB120_0.8-1.0	Soil	31/05/2023		soil jar	1	-																			
DUP15	Soil	31/05/2023		soil jar, PFAS jar	2	-			X																
SPLIT15	Soil	31/05/2023		soil jar, PFAS jar	2	-			X																
DUP16	Soil	31/05/2023		soil jar	1	-							X			X									

'NOTES

PLEASE SEND TO ENVIROLAB FOR ANALYSIS

ENVIROLAB
~~Envirolab Services~~
~~25 Research Drive~~
~~Croydon South VIC 3136~~
~~Ph: (03) 9763 2500~~

Job No: 37738
~~Date Received:~~ 6/6/23
~~Time Received:~~ 1:05pm
Received By: AG
Temp: ~~Cool~~/Ambient 13.6°C
Cooling: Ice/~~Icepack~~
Security: ~~Intact~~/Broken/None

COPY

12 RC

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CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St, ADELAIDE, SA, 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: URPS Osborne	COC Reference 64648S7	SAMPLERS: AB/AJ/JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 64648	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 31/5/23	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact .... COOLER TEMP: deg.C	**Please forward results and invoice to:** **labresults@jbsg.com.au, klough@jbsg.com.au**		

SAMPLE DATA				CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	B6 (HM/TRH/BTEX)	M8	PFAS	SPOCAS	pH	B1 (TRH/BTEX)	B7 (HM/TRH/BTEX/PAH)	VOCS	B14 (OCPs/OPPs)	OCPs	PCBs	Cyanide	Organotins	R21 (EIL suite)	B1 (TRH/BTEX)	
2 SPLIT16	Soil	31/05/2023		soil jar	1	-							X			X							PLEASE SEND TO ENVIROLAB FOR ANALYSIS
DUP32	Soil	31/05/2023		soil jar	1																		
3 SPLIT32	Soil	31/05/2023		soil jar	1																		
RB08	Water	31/05/2023		2xvials, 1x amber, 1x HM, 1x PFAS	5	-	X		X														
FB05	Water	31/05/2023		1x PFAS	1	-			X														
						TOTAL	10	27	13	10	14	0	21	16	11	2	11	9	9	1	4	0	

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuplhate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

'NOTES

Rlinquished by Jessica G 6/6 9am

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Tyrone Gowans

12

From: Amy Meunier
Sent: Monday, 5 June 2023 12:37 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: JBS&G job 64648 - additional sample analysis

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Jake,

Can you please assist with the below changes?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 5 June 2023 10:22 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: JBS&G job 64648 - additional sample analysis
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy,

Can I please add the following samples for analysis:

- SB126_0.8-1.1 (collected on 31 May; yet to receive the SRA) for B7
- SB171_2.2-2.5 (collected on 29 May; Eurofins ref 995383) for M8
- DUP32 (collected on 31 May; yet to receive the SRA) for B7
- DUP31 (collected on 29 May; Eurofins ref 995383) for M8
- SPLIT32 (collected on 31 May; yet to receive the SRA) to be forwarded to Envirolab for analysis for Metals (8), TRH, BTEX, PAH

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37738

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648**
Number of Samples	3 Soil
Date samples received	06/06/2023
Date completed instructions received	06/06/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	13/06/2023
Date of Issue	13/06/2023

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Azrin Akram, Senior Chemist
Tara White, Metals Team Leader
Tianna Milburn, Senior Chemist

Authorised By
Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		37738-2	37738-3
Your Reference	UNITS	SPLIT16	SPLIT32
Date Sampled		31/05/2023	31/05/2023
Type of sample		Soil	Soil
Date extracted	-	07/06/2023	07/06/2023
Date analysed	-	07/06/2023	07/06/2023
vTRH C_6 - C_9	mg/kg	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total BTEX	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	80

TRH Soil C10-C40 NEPM			
Our Reference		37738-2	37738-3
Your Reference	UNITS	SPLIT16	SPLIT32
Date Sampled		31/05/2023	31/05/2023
Type of sample		Soil	Soil
Date extracted	-	07/06/2023	07/06/2023
Date analysed	-	13/06/2023	13/06/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	86	86

PAHs in Soil			
Our Reference		37738-2	37738-3
Your Reference	UNITS	SPLIT16	SPLIT32
Date Sampled		31/05/2023	31/05/2023
Type of sample		Soil	Soil
Date extracted	-	07/06/2023	07/06/2023
Date analysed	-	08/06/2023	08/06/2023
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	108	114

OCP in Soil		
Our Reference		37738-2
Your Reference	UNITS	SPLIT16
Date Sampled		31/05/2023
Type of sample		Soil
Date extracted	-	07/06/2023
Date analysed	-	08/06/2023
alpha-BHC	mg/kg	<0.1
Hexachlorobenzene	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve reported Aldrin + Dieldrin	mg/kg	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1
Surrogate 2-chlorophenol-d4	%	42

Acid Extractable metals in soil			
Our Reference		37738-2	37738-3
Your Reference	UNITS	SPLIT16	SPLIT32
Date Sampled		31/05/2023	31/05/2023
Type of sample		Soil	Soil
Date digested	-	09/06/2023	08/06/2023
Date analysed	-	09/06/2023	08/06/2023
Arsenic	mg/kg	<4	5
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	4	8
Copper	mg/kg	5	7
Lead	mg/kg	4	6
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	5	4
Zinc	mg/kg	7	12

PFAS in Soil Extended		
Our Reference		37738-1
Your Reference	UNITS	SPLIT15
Date Sampled		31/05/2023
Type of sample		Soil
Date prepared	-	09/06/2023
Date analysed	-	09/06/2023
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ PFOS	%	96
Surrogate $^{13}C_2$ PFOA	%	101
Extracted ISTD $^{13}C_3$ *PFBS*	%	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	84
Extracted ISTD $^{13}C_4$ *PFOS*	%	85
Extracted ISTD $^{13}C_4$ *PFBA*	%	87

PFAS in Soil Extended		
Our Reference		37738-1
Your Reference	UNITS	SPLIT15
Date Sampled		31/05/2023
Type of sample		Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	88
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	87
Extracted ISTD $^{13}C_4$ *PFOA*	%	90
Extracted ISTD $^{13}C_5$ *PFNA*	%	89
Extracted ISTD $^{13}C_2$ *PFDA*	%	86
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	93
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	87
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	92
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94
Extracted ISTD $^{13}C_8$ *FOSA*	%	97
Extracted ISTD d_3 *N MeFOSA*	%	86
Extracted ISTD d_5 *NEtFOSA*	%	85
Extracted ISTD d_7 *N MeFOSE*	%	86
Extracted ISTD d_9 *N EtFOSE*	%	87
Extracted ISTD d_3 *N MeFOSAA*	%	82
Extracted ISTD d_5 *N EtFOSAA*	%	87
Total Positive PFHxS & PFOS	µg/kg	0.1
Total Positive PFOS & PFOA	µg/kg	0.1
Total Positive PFAS	µg/kg	0.1

Moisture				
Our Reference		37738-1	37738-2	37738-3
Your Reference	UNITS	SPLIT15	SPLIT16	SPLIT32
Date Sampled		31/05/2023	31/05/2023	31/05/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	07/06/2023	07/06/2023	07/06/2023
Date analysed	-	08/06/2023	08/06/2023	08/06/2023
Moisture	%	9.9	2.9	10

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Note, For OCs the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			07/06/2023	[NT]	[NT]	[NT]	[NT]	07/06/2023	[NT]
Date analysed	-			07/06/2023	[NT]	[NT]	[NT]	[NT]	07/06/2023	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	104	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	104	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	98	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	111	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			07/06/2023	[NT]	[NT]	[NT]	[NT]	07/06/2023	[NT]
Date analysed	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	88	[NT]	[NT]	[NT]	[NT]	86	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			07/06/2023	[NT]	[NT]	[NT]	[NT]	07/06/2023	[NT]
Date analysed	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	134	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	106	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			07/06/2023	[NT]	[NT]	[NT]	[NT]	07/06/2023	[NT]
Date analysed	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	126	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	136	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	130	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	132	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	128	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	132	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	88	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
Date analysed	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	104	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	100	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37738-1
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	101	98
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	112	112
Perfluorohexanesulfonic acid PFHxS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	111	103
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	119	113
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	1	0.1	0.1	0	109	103
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	104	90
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	102	101
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	99	101
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	109	102
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	99	101
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	97	99
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	95	96
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	96	104
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	100	103
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	105	101
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	95	97
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	1	<5	<5	0	120	104
4:2 FTS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	103	100
6:2 FTS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	100	100
8:2 FTS	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	105	106
10:2 FTS	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	93	101
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	1	<1	<1	0	102	100
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	1	<1	<1	0	115	101
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	1	<1	<1	0	103	100
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	1	<1	<1	0	90	100
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	1	<5	<5	0	115	114
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	91	100
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	100	96
Surrogate $^{13}C_8$ PFOS	%		Org-029	107	1	96	99	3	107	100
Surrogate $^{13}C_2$ PFOA	%		Org-029	95	1	101	102	1	96	98
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	98	1	93	91	2	94	93

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37738-1
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	87	1	84	83	1	83	83
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	87	1	85	89	5	82	81
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	94	1	87	86	1	90	87
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	92	1	88	86	2	91	84
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	89	1	87	86	1	85	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	93	1	87	87	0	90	87
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	99	1	90	89	1	94	90
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	94	1	89	90	1	91	90
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	85	1	86	86	0	84	83
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	86	1	91	93	2	83	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	86	1	93	89	4	81	91
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	79	1	87	98	12	79	90
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	93	1	86	82	5	87	83
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	98	1	92	91	1	92	88
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	93	1	94	93	1	86	93
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	98	1	97	96	1	91	95
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	87	1	86	84	2	87	87
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	90	1	85	84	1	89	86
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	100	1	86	81	6	95	81
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	94	1	87	85	2	94	85

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	37738-1
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	95	1	82	80	2	91	82
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	99	1	87	89	2	98	89

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

JB7

Tyrone Gowans

From: Amy Meunier
Sent: Monday, 5 June 2023 12:37 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: JBS&G job 64648 - additional sample analysis

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hi Jake,

Can you please assist with the below changes?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500
Job No: 37739

Date Received: 6/6/23
Time Received: 1:05pm
Received By: AG
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

14.7°C

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 5 June 2023 10:22 AM
To: Amy Meunier <AmyMeunier@eurofins.com>
Subject: JBS&G job 64648 - additional sample analysis
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy,

Relinquished by Jessica :)
Ef 6/6 8am

Can I please add the following samples for analysis:

- SB126_0.8-1.1 (collected on 31 May; yet to receive the SRA) for B7
- SB171_2.2-2.5 (collected on 29 May; Eurofins ref 995383) for M8
- DUP32 (collected on 31 May; yet to receive the SRA) for B7
- DUP31 (collected on 29 May; Eurofins ref 995383) for M8
- SPLIT32 (collected on 31 May; yet to receive the SRA) to be forwarded to Envirolab for analysis for Metals (8), TRH, BTEX, PAH

1 • SPLIT31 (collected on 29 May; Eurofins ref 995383) to be forwarded to Envirolab for analysis for Metals (8)

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

7 JB

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 8763 2500

Job No:

Date Received: 6/6/23
Time Received: 1405
Received By:
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

AG 6/6/23

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 37739

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Kate Lough
Address	100 Hutt Street, ADELAIDE, SA, 5000

Sample Details

Your Reference	**64648**
Number of Samples	1 Soil
Date samples received	06/06/2023
Date completed instructions received	06/06/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	13/06/2023
Date of Issue	09/06/2023

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Chris De Luca, Assistant Lab Manager

Authorised By
Pamela Adams, Laboratory Manager

Acid Extractable metals in soil		
Our Reference		37739-1
Your Reference	UNITS	Split31
Date Sampled		29/05/2023
Type of sample		Soil
Date digested	-	08/06/2023
Date analysed	-	08/06/2023
Arsenic	mg/kg	31
Cadmium	mg/kg	7.6
Chromium	mg/kg	6
Copper	mg/kg	12
Lead	mg/kg	160
Mercury	mg/kg	<0.1
Nickel	mg/kg	9
Zinc	mg/kg	55

Moisture		
Our Reference		37739-1
Your Reference	UNITS	Split31
Date Sampled		29/05/2023
Type of sample		Soil
Date prepared	-	07/06/2023
Date analysed	-	08/06/2023
Moisture	%	41

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
Date analysed	-			08/06/2023	[NT]	[NT]	[NT]	[NT]	08/06/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

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>	Greater than
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LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5925	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 22/5/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au
ajames@jbsg.com.au

HARP
#1101684

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B (TRH/BTEX/M8)	NOTES
BH01/1	0	0.8	Soil	22/05/2024		1 Jar	1															X	X		
BH01/2	0.3	0.5	Soil	22/05/2024		1 Jar	1																		
BH01/3	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
BH01/4	0.7	0.8	Soil	22/05/2024		1 Jar	1																		
BH02/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X			X			X			X		X	X	X	X		
BH02/2	0.4	0.6	Soil	22/05/2024		1 Jar	1																		
BH02/3	0.6	0.8	Soil	22/05/2024		1 Jar	1																		
BH04/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH04/2	0.2	0.4	Soil	22/05/2024		1 Jar	1								X								X		
BH04/3	0.5	0.7	Soil	22/05/2024		1 Jar	1					X					X				X				
BH04/4	0.7	0.9	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
BH05/1	0	0.3	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH05/2	0.3	0.4	Soil	22/05/2024		1 Jar	1																		
BH05/3	0.4	0.6	Soil	22/05/2024		1 Jar	1																		
BH05/4	0.6	0.8	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
BH11/1	0	0.2	Soil	22/05/2024		1 Jar	1																X		
BH11/2	0.4	0.6	Soil	22/05/2024		1 Jar	1																		
BH11/3	0.7	1	Soil	22/05/2024		1 Jar	1																		
BH20/1	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X						X			X		X		X	X		
BH20/2	0.4	0.6	Soil	22/05/2024		1 Jar	1																		
BH20/3	0.6	0.8	Soil	22/05/2024		1 Jar	1					X					X				X				
BH20/4	0.8	0.9	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
BH26/2	0.2	0.4	Soil	22/05/2024		1 Jar	1																		
BH26/3	0.4	0.6	Soil	22/05/2024		1 Jar	1																	X	
BH29/1	0	0.2	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH29/2	0.3	0.5	Soil	22/05/2024		1 Jar	1																		
BH29/3	0.6	0.8	Soil	22/05/2024		1 Jar	1					X			X			X		X	X	X	X		
BH29/4	0.8	1	Soil	22/05/2024		1 Jar	1																		
BH31/1	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH31/2	0.4	0.7	Soil	22/05/2024		1 Jar	1																		

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5925	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 22/5/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL	**Please forward results and invoice to:** labresults@jbsg.com.au	CONSIGNMENT NOTE NO.
Yes ..... No	klough@jbsg.com.au	
Broken ..... Intact	jayers@jbsg.com.au	TRANSPORT CO. NAME.
COOLER TEMP: deg.C	ajames@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B (TRH/BTEX/M8)	'NOTES
BH31/3	0.7	0.9	Soil	22/05/2024		1 Jar	1																		
BH32/1	0	0.2	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH32/2	0.4	0.6	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X				X								
BH33/1	0	0.1	Soil	22/05/2024		1 Jar	1																		
BH33/2	0.1	0.4	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2				X	X		X	X										
BH33/3	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
BH33/4	0.8	1	Soil	22/05/2024		1 Jar	1																		
BH34/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X	X	X			X											
BH34/2	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
BH34/3	0.7	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2					X	X		X										
BH35/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X											
BH35/2	0.3	0.5	Soil	22/05/2024		1 Jar	1																		
BH35/3	0.5	0.7	Soil	22/05/2024		1 Jar	1				X	X			X										
BH35/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
BH36/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X		X														
BH36/2	0.2	0.4	Soil	22/05/2024		1 Jar	1																		
BH36/3	0.5	0.7	Soil	22/05/2024		1 Jar	1								X										
BH36/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
DUP01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		
DUP02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X													X		
DUP03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
SPLIT01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		Please forward to Envirolab ASAP for analysis
SPLIT02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X													X		
SPLIT03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
RB01	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5		X															X	
RB02	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5																		
FB01	-	-	Water	22/05/2024		1 PFAS	1		X																
FB02	-	-	Water	22/05/2024		1 PFAS	1																		
							TOTAL		11	3	4	7	7	6	8	0	10	3	0	0	0	0	2	1	

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Harry Bacalis

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 27 May 2024 10:12 AM
To: Amy Meunier; Harry Bacalis
Subject: Completed COC for soil samples collected 22nd May (Osborne 67064)
Attachments: Batch 1_COC 5925_Eurofins.xlsx

Importance: High

Hi Amy and Harry,

Please find attached completed COC for soil samples collected last Wednesday (22nd May) for Osborne. Please ensure samples are extracted / analysed within holding time.

Please note Split02 and Split03 are to be sent to Envirolab with a copy of this COC.

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

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PROJECT INFORMATION

Date Received: 22/5/24

Company: JBS&G

Contact person: Kate Lough

Contact Number: 0433 683 378

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne EIS

Project Number: 67064

55 x Jar
13 x tub
7 x ASS (frozen)
6 x Asb bag
2 x set ret.

COC: **Attached** ☐
E-mailed ☐
Not received ☑ – Day 1 of 3 of sampling

KL/Jack/Amanda to provide COC if necessary.

2x Eskies + SPOCAS Bags (Freezer)

ov 1B.

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

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Eurofins Environment Testing Australia Pty Ltd

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	OSBORNE EIS
Project ID:	67064
Turnaround time:	5 Day
Date/Time received	May 27, 2024 10:12 AM
Eurofins reference	1101684

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

EXTRA SAMPLE BH26/1 RECEIVE NOT ON COC, PLACED ON HOLD

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Kate Lough
Report	1101684-AID-V2
Project Name	OSBORNE EIS
Project ID	67064
Received Date	May 27, 2024
Date Reported	Jun 26, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name OSBORNE EIS
Project ID 67064
Date Sampled May 22, 2024
Report 1101684-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH05/1_0-0.3	24-My0077477	May 22, 2024	Approximate Sample 932g Sample consisted of: Brown fine-grained sandy soil, coal like material, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH29/1_0-0.2	24-My0077484	May 22, 2024	Approximate Sample 963g Sample consisted of: Grey fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH32/1_0.4-0.7	24-My0077487	May 22, 2024	Approximate Sample 744g Sample consisted of: Grey fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH33/2_0.1-0.4	24-My0077489	May 22, 2024	Approximate Sample 697g Sample consisted of: Brown fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH34/1_0-0.2	24-My0077490	May 22, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey sandy soil, cement, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH35/1_0-0.2	24-My0077492	May 22, 2024	Approximate Sample 70g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 03, 2024	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jun 03, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2370

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Eurofins Environment Testing NZ Ltd
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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254			X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780												X					
External Laboratory																	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	BH01/1_0-0.8	May 22, 2024		Soil	M24-My0077471									X			X	X			
2	BH02/1_0.2	May 22, 2024		Soil	M24-My0077472			X		X			X		X	X	X	X		X	X
3	BH04/1_0-0.2	May 22, 2024		Soil	M24-My0077473									X			X	X		X	
4	BH04/2_0.2-0.4	May 22, 2024		Soil	M24-My0077474			X									X	X			
5	BH04/3_0.5-0.7	May 22, 2024		Soil	M24-My0077475			X						X			X				X
6	BH04/4_0.7-0.9	May 22, 2024		Soil	M24-My0077476											X	X				
7	BH05/1_0-0.3	May 22, 2024		Soil	M24-My0077477		X							X			X				
8	BH05/4_0.6-0.8	May 22, 2024		Soil	M24-My0077478											X	X				
9	BH11/1_0-0.2	May 22, 2024		Soil	M24-My0077479												X	X			

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Phone: 08 8431 7113
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Received: May 27, 2024 10:12 AM
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Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
10	BH20/1_0-0.3	May 22, 2024		Soil	M24-My0077480					X			X		X	X		X	X		X	
11	BH20/3_0.6-0.8	May 22, 2024		Soil	M24-My0077481			X						X				X				X
12	BH20/4_0.8-0.9	May 22, 2024		Soil	M24-My0077482												X	X				
13	BH26/3_0.4-0.6	May 22, 2024		Soil	M24-My0077483													X	X			
14	BH29/1_0-0.2	May 22, 2024		Soil	M24-My0077484		X							X				X				
15	BH29/3_0.6-0.8	May 22, 2024		Soil	M24-My0077485			X		X			X		X	X		X	X			X
16	BH31/1_0-0.3	May 22, 2024		Soil	M24-My0077486									X				X			X	
17	BH32/1_0.4-0.7	May 22, 2024		Soil	M24-My0077487		X							X				X				
18	BH32/2_0-0.2	May 22, 2024		Soil	M24-My0077488									X			X	X				
19	BH33/2_0.1-0.4	May 22, 2024		Soil	M24-My0077489		X			X		X						X				X
20	BH34/1_0-0.2	May 22, 2024		Soil	M24-My0077490		X				X	X						X			X	

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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
21	BH34/3_0.7-1	May 22, 2024		Soil	M24-My0077491					X							X	X				X
22	BH35/1_0-0.2	May 22, 2024		Soil	M24-My0077492	X												X			X	
23	BH35/3_0.5-0.7	May 22, 2024		Soil	M24-My0077493					X		X						X				X
24	BH35/4_0.8-1	May 22, 2024		Soil	M24-My0077494												X	X				
25	BH36/1_0-0.2	May 22, 2024		Soil	M24-My0077495							X						X			X	
26	BH36/3_0.5-0.7	May 22, 2024		Soil	M24-My0077496					X								X				
27	BH36/4_0.8-1	May 22, 2024		Soil	M24-My0077497												X	X				
28	DUP02	May 22, 2024		Soil	M24-My0077498						X							X	X		X	
29	DUP03	May 22, 2024		Soil	M24-My0077499									X				X				
30	RB01	May 22, 2024		Water	M24-My0077500															X	X	
31	FB01	May 22, 2024		Water	M24-My0077501																X	
32	BH01/2	May 22, 2024		Soil	M24-My0077502				X													
33	BH01/3	May 22, 2024		Soil	M24-My0077503				X													

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
34	BH01/4	May 22, 2024		Soil	M24-My0077504				X													
35	BH02/2	May 22, 2024		Soil	M24-My0077505				X													
36	BH02/3	May 22, 2024		Soil	M24-My0077506				X													
37	BH05/2	May 22, 2024		Soil	M24-My0077507				X													
38	BH05/3	May 22, 2024		Soil	M24-My0077508				X													
39	BH11/2	May 22, 2024		Soil	M24-My0077509				X													
40	BH11/3	May 22, 2024		Soil	M24-My0077510				X													
41	BH20/2	May 22, 2024		Soil	M24-My0077511				X													
42	BH26/2	May 22, 2024		Soil	M24-My0077512				X													
43	BH29/2	May 22, 2024		Soil	M24-My0077513				X													
44	BH29/4	May 22, 2024		Soil	M24-My0077514				X													
45	BH31/2	May 22, 2024		Soil	M24-My0077515				X													
46	BH31/3	May 22, 2024		Soil	M24-My0077516				X													
47	BH33/1	May 22, 2024		Soil	M24-My0077517				X													
48	BH33/3	May 22, 2024		Soil	M24-My0077518				X													

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
49	BH33/4	May 22, 2024		Soil	M24-My0077519				X													
50	BH34/2	May 22, 2024		Soil	M24-My0077520				X													
51	BH35/2	May 22, 2024		Soil	M24-My0077521				X													
52	BH36/2	May 22, 2024		Soil	M24-My0077522				X													
53	DUP01	May 22, 2024		Soil	M24-My0077523				X													
54	RB02	May 22, 2024		Water	M24-My0077524				X													
55	FB02	May 22, 2024		Water	M24-My0077525				X													
56	BH26/1	May 22, 2024		Soil	M24-My0077526				X													
Test Counts						1	5	4	25	8	2	4	3	9	4	3	7	29	8	1	10	7

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V = r x t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

This report has been revised V2 to correct sample names to include sample depths. Per COC.

24-My0077490: Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

24-My0077492: The sample received was not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-sample to be analysed accurately represented the sample received.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1101684-S-V2**
Project name OSBORNE EIS
Project ID 67064
Received Date May 27, 2024

Client Sample ID			**BH01/1_0-0.8**	**BH02/1_0.2**	**BH04/1_0-0.2**	**BH04/2_0.2-0.4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M24-My0077471**	**M24-My0077472**	**M24-My0077473**	**M24-My0077474**
Date Sampled			**May 22, 2024**	**May 22, 2024**	**May 22, 2024**	**May 22, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	65	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	65	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	50	-	63
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

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Client Sample ID			BH01/1_0-0.8	BH02/1_0.2	BH04/1_0-0.2	BH04/2_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077471	M24-My0077472	M24-My0077473	M24-My0077474
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	76	-	81
p-Terphenyl-d14 (surr.)	1	%	75	82	-	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	0.1	-	-
Dibutylchlorendate (surr.)	1	%	84	131	-	-
Tetrachloro-m-xylene (surr.)	1	%	105	97	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	-

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Client Sample ID			BH01/1_0-0.8	BH02/1_0.2	BH04/1_0-0.2	BH04/2_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077471	M24-My0077472	M24-My0077473	M24-My0077474
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	< 2	-	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-	-
Omethoate	2	mg/kg	< 2	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	66	98	-	-
Heavy Metals						
Arsenic	2	mg/kg	2.9	3.7	3.5	5.2
Cadmium	0.4	mg/kg	1.5	0.9	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	9.5	6.0	21
Copper	5	mg/kg	< 5	8.3	12	13
Lead	5	mg/kg	52	26	6.8	9.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.5	10.0
Zinc	5	mg/kg	24	210	14	24
Sample Properties						
% Moisture	1	%	14	2.3	6.1	12
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			BH01/1_0-0.8	BH02/1_0.2	BH04/1_0-0.2	BH04/2_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077471	M24-My0077472	M24-My0077473	M24-My0077474
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	50	-	-
Toluene-d8 (surr.)	1	%	-	83	-	-

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Client Sample ID			BH01/1_0-0.8	BH02/1_0.2	BH04/1_0-0.2	BH04/2_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077471	M24-My0077472	M24-My0077473	M24-My0077474
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	131	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	134	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	9.2	-	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	< 5	-
13C4-PFBA (surr.)	1	%	-	93	75	-
13C5-PFPeA (surr.)	1	%	-	106	102	-
13C5-PFHxA (surr.)	1	%	-	110	109	-
13C4-PFHpA (surr.)	1	%	-	114	113	-
13C8-PFOA (surr.)	1	%	-	110	109	-
13C5-PFNA (surr.)	1	%	-	115	107	-
13C6-PFDA (surr.)	1	%	-	121	106	-
13C2-PFUnDA (surr.)	1	%	-	121	110	-
13C2-PFDoDA (surr.)	1	%	-	96	86	-
13C2-PFTeDA (surr.)	1	%	-	90	118	-

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Client Sample ID			BH01/1_0-0.8	BH02/1_0.2	BH04/1_0-0.2	BH04/2_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077471	M24-My0077472	M24-My0077473	M24-My0077474
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	< 10	-
13C8-FOSA (surr.)	1	%	-	102	108	-
D3-N-MeFOSA (surr.)	1	%	-	100	97	-
D5-N-EtFOSA (surr.)	1	%	-	101	98	-
D7-N-MeFOSE (surr.)	1	%	-	114	114	-
D9-N-EtFOSE (surr.)	1	%	-	76	112	-
D5-N-EtFOSAA (surr.)	1	%	-	127	80	-
D3-N-MeFOSAA (surr.)	1	%	-	102	64	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	< 5	-
13C3-PFBS (surr.)	1	%	-	101	91	-
18O2-PFHxS (surr.)	1	%	-	100	89	-
13C8-PFOS (surr.)	1	%	-	111	116	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	103	176	-
13C2-6:2 FTSA (surr.)	1	%	-	96	159	-
13C2-8:2 FTSA (surr.)	1	%	-	95	89	-
13C2-10:2 FTSA (surr.)	1	%	-	90	88	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	< 50	-

eurofins | Environment Testing

Client Sample ID			BH04/3_0.5-0.7	BH04/4_0.7-0.9	BH05/1_0-0.3	BH05/4_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077475	M24-My0077476	M24-My0077477	M24-My0077478
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.4	-	6.0	-
Cadmium	0.4	mg/kg	0.7	-	< 0.4	-
Chromium	5	mg/kg	19	-	14	-
Copper	5	mg/kg	17	-	11	-
Lead	5	mg/kg	27	-	20	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	19	-	6.9	-
Zinc	5	mg/kg	52	-	36	-
Sample Properties						
% Moisture	1	%	15	15	5.1	13
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-	-
Dibutyltin	1	mg/kg	< 1	-	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tripropyltin as Sn (surr.)	1	%	118	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	10	-	13
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.0	-	9.3
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.057	-	0.022
Peroxide Extractable Sulfur	0.005	% S	-	0.12	-	0.060
HCl Extractable Sulfur	0.005	% S	-	N/A	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.063	-	0.038
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	39	-	24
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.23	-	4.6
Calcium - Peroxide	0.005	% Ca	-	15	-	34
Calcium - Acid Reacted	0.005	% Ca	-	14	-	30
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	11	-	24
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	7200	-	15000

eurofins | Environment Testing

Client Sample ID			BH04/3_0.5-0.7	BH04/4_0.7-0.9	BH05/1_0-0.3	BH05/4_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077475	M24-My0077476	M24-My0077477	M24-My0077478
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.006	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	0.33	-	0.31
Magnesium - Acid Reacted	0.005	% Mg	-	0.32	-	0.31
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.42	-	0.41
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	260	-	260
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	34	-	84
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	11	-	27
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	6800	-	17000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	110	-	170
>2mm Fraction	0.005	g	-	2.8	-	6.4
Analysed Material	0.1	%	-	97	-	96
Extraneous Material	0.1	%	-	2.5	-	3.6

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	400	< 50	-	-
TRH C29-C36	50	mg/kg	240	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	640	< 50	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	570	< 100	-	-
TRH >C34-C40	100	mg/kg	150	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	720	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	85	82	-	-

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	79	88	-	-
p-Terphenyl-d14 (surr.)	1	%	145	89	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	116	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	103	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.1	7.0	8.2	-
Cadmium	0.4	mg/kg	0.7	< 0.4	< 0.4	-
Chromium	5	mg/kg	9.4	11	240	-
Copper	5	mg/kg	11	17	15	-
Lead	5	mg/kg	53	8.3	760	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	5.7	7.2	11	-
Zinc	5	mg/kg	50	39	37	-
Sample Properties						
% Moisture	1	%	11	2.1	5.5	7.2

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	82	-	-
Toluene-d8 (surr.)	1	%	-	80	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	116	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	123	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	7.7	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	70	-	-
13C5-PFPeA (surr.)	1	%	-	103	-	-
13C5-PFHxA (surr.)	1	%	-	110	-	-
13C4-PFHpA (surr.)	1	%	-	113	-	-

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	-	111	-	-
13C5-PFNA (surr.)	1	%	-	112	-	-
13C6-PFDA (surr.)	1	%	-	119	-	-
13C2-PFUnDA (surr.)	1	%	-	113	-	-
13C2-PFDoDA (surr.)	1	%	-	92	-	-
13C2-PFTeDA (surr.)	1	%	-	118	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	100	-	-
D3-N-MeFOSA (surr.)	1	%	-	101	-	-
D5-N-EtFOSA (surr.)	1	%	-	100	-	-
D7-N-MeFOSE (surr.)	1	%	-	114	-	-
D9-N-EtFOSE (surr.)	1	%	-	110	-	-
D5-N-EtFOSAA (surr.)	1	%	-	120	-	-
D3-N-MeFOSAA (surr.)	1	%	-	99	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	95	-	-
18O2-PFHxS (surr.)	1	%	-	97	-	-
13C8-PFOS (surr.)	1	%	-	105	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	118	-	-
13C2-6:2 FTSA (surr.)	1	%	-	94	-	-
13C2-8:2 FTSA (surr.)	1	%	-	100	-	-
13C2-10:2 FTSA (surr.)	1	%	-	80	-	-

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.7
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.7
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.068
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.14
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.070
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	44
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.38
Calcium - Peroxide	0.005	% Ca	-	-	-	9.7
Calcium - Acid Reacted	0.005	% Ca	-	-	-	9.3
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	7.4
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	4600
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.012
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.42
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.41
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.54
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	340
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	23
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	7.2
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	4500
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1

eurofins | Environment Testing

Client Sample ID			BH11/1_0-0.2	BH20/1_0-0.3	BH20/3_0.6-0.8	BH20/4_0.8-0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077479	M24-My0077480	M24-My0077481	M24-My0077482
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	160
>2mm Fraction	0.005	g	-	-	-	90
Analysed Material	0.1	%	-	-	-	64
Extraneous Material	0.1	%	-	-	-	36

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	89	-	88	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	76	-	89	-
p-Terphenyl-d14 (surr.)	1	%	92	-	94	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	133	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-

eurofins | Environment Testing

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	95	-
Heavy Metals						
Arsenic	2	mg/kg	4.5	6.3	5.1	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	12	19	25
Copper	5	mg/kg	13	14	18	17
Lead	5	mg/kg	15	16	25	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	10	12	16
Zinc	5	mg/kg	45	36	98	59
Sample Properties						
% Moisture	1	%	5.7	2.5	7.3	5.6
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	88	-
Toluene-d8 (surr.)	1	%	-	-	104	-

eurofins | Environment Testing

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	133	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	138	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	9.1	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	69
13C5-PFPeA (surr.)	1	%	-	-	-	108
13C5-PFHxA (surr.)	1	%	-	-	-	111
13C4-PFHpA (surr.)	1	%	-	-	-	117
13C8-PFOA (surr.)	1	%	-	-	-	115
13C5-PFNA (surr.)	1	%	-	-	-	116
13C6-PFDA (surr.)	1	%	-	-	-	126
13C2-PFUnDA (surr.)	1	%	-	-	-	118
13C2-PFDoDA (surr.)	1	%	-	-	-	93
13C2-PFTeDA (surr.)	1	%	-	-	-	123

eurofins | Environment Testing

Client Sample ID			BH26/3_0.4-0.6	BH29/1_0-0.2	BH29/3_0.6-0.8	BH31/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077483	M24-My0077484	M24-My0077485	M24-My0077486
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	106
D3-N-MeFOSA (surr.)	1	%	-	-	-	102
D5-N-EtFOSA (surr.)	1	%	-	-	-	103
D7-N-MeFOSE (surr.)	1	%	-	-	-	118
D9-N-EtFOSE (surr.)	1	%	-	-	-	117
D5-N-EtFOSAA (surr.)	1	%	-	-	-	126
D3-N-MeFOSAA (surr.)	1	%	-	-	-	101
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	98
18O2-PFHxS (surr.)	1	%	-	-	-	102
13C8-PFOS (surr.)	1	%	-	-	-	113
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	127
13C2-6:2 FTSA (surr.)	1	%	-	-	-	117
13C2-8:2 FTSA (surr.)	1	%	-	-	-	106
13C2-10:2 FTSA (surr.)	1	%	-	-	-	83
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

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Client Sample ID			BH32/1_0.4-0.7	BH32/2_0-0.2	BH33/2_0.1-0.4	BH34/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077487	M24-My0077488	M24-My0077489	M24-My0077490
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	129
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	91
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Bolstar	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Coumaphos	2	mg/kg	-	-	< 2	< 2
Demeton-S	0.2	mg/kg	-	-	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	-	-	< 0.2	< 0.2
Diazinon	0.2	mg/kg	-	-	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	-	-	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	-	-	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	-	-	< 0.2	< 0.2
EPN	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethion	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Malathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Merphos	0.2	mg/kg	-	-	< 0.2	< 0.2

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Client Sample ID			BH32/1_0.4-0.7	BH32/2_0-0.2	BH33/2_0.1-0.4	BH34/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077487	M24-My0077488	M24-My0077489	M24-My0077490
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Monocrotophos	2	mg/kg	-	-	< 2	< 2
Naled	0.2	mg/kg	-	-	< 0.2	< 0.2
Omethoate	2	mg/kg	-	-	< 2	< 2
Phorate	0.2	mg/kg	-	-	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	-	-	< 0.2	< 0.2
Ronnel	0.2	mg/kg	-	-	< 0.2	< 0.2
Terbufos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	-	-	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	90	91
Heavy Metals						
Arsenic	2	mg/kg	9.1	7.3	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	13	24	-	-
Copper	5	mg/kg	14	21	-	-
Lead	5	mg/kg	14	28	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	8.8	15	-	-
Zinc	5	mg/kg	44	57	-	-
Sample Properties						
% Moisture	1	%	2.8	5.5	13	14
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	126	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	9.0	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5

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Client Sample ID			BH32/1_0.4-0.7	BH32/2_0-0.2	BH33/2_0.1-0.4	BH34/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077487	M24-My0077488	M24-My0077489	M24-My0077490
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFBA (surr.)	1	%	-	-	-	88
13C5-PFPeA (surr.)	1	%	-	-	-	103
13C5-PFHxA (surr.)	1	%	-	-	-	106
13C4-PFHpA (surr.)	1	%	-	-	-	111
13C8-PFOA (surr.)	1	%	-	-	-	109
13C5-PFNA (surr.)	1	%	-	-	-	110
13C6-PFDA (surr.)	1	%	-	-	-	118
13C2-PFUnDA (surr.)	1	%	-	-	-	115
13C2-PFDoDA (surr.)	1	%	-	-	-	92
13C2-PFTeDA (surr.)	1	%	-	-	-	113
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	104
D3-N-MeFOSA (surr.)	1	%	-	-	-	99
D5-N-EtFOSA (surr.)	1	%	-	-	-	96
D7-N-MeFOSE (surr.)	1	%	-	-	-	115
D9-N-EtFOSE (surr.)	1	%	-	-	-	106
D5-N-EtFOSAA (surr.)	1	%	-	-	-	114
D3-N-MeFOSAA (surr.)	1	%	-	-	-	94
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	92
18O2-PFHxS (surr.)	1	%	-	-	-	96
13C8-PFOS (surr.)	1	%	-	-	-	105
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	106

eurofins | Environment Testing

Client Sample ID			BH32/1_0.4-0.7	BH32/2_0-0.2	BH33/2_0.1-0.4	BH34/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077487	M24-My0077488	M24-My0077489	M24-My0077490
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-6:2 FTSA (surr.)	1	%	-	-	-	97
13C2-8:2 FTSA (surr.)	1	%	-	-	-	99
13C2-10:2 FTSA (surr.)	1	%	-	-	-	89
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.7	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	8.0	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.12	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.21	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.097	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	61	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.33	-	-
Calcium - Peroxide	0.005	% Ca	-	5.3	-	-
Calcium - Acid Reacted	0.005	% Ca	-	5.0	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	4.0	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	2500	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.016	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.42	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.40	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.53	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	330	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	12	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	3.9	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	2500	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-

eurofins | Environment Testing

Client Sample ID			BH32/1_0.4-0.7	BH32/2_0-0.2	BH33/2_0.1-0.4	BH34/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077487	M24-My0077488	M24-My0077489	M24-My0077490
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	99	-	-
>2mm Fraction	0.005	g	-	170	-	-
Analysed Material	0.1	%	-	37	-	-
Extraneous Material	0.1	%	-	63	-	-

Client Sample ID			BH34/3_0.7-1	BH35/1_0-0.2	BH35/3_0.5-0.7	BH35/4_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077491	M24-My0077492	M24-My0077493	M24-My0077494
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-

eurofins | Environment Testing

Client Sample ID			BH34/3_0.7-1	BH35/1_0-0.2	BH35/3_0.5-0.7	BH35/4_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077491	M24-My0077492	M24-My0077493	M24-My0077494
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	92	-
Sample Properties						
% Moisture	1	%	11	7.2	5.5	3.4
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	127	-	134	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	11	-	9.6	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	89	-	-
13C5-PFPeA (surr.)	1	%	-	102	-	-
13C5-PFHxA (surr.)	1	%	-	105	-	-
13C4-PFHpA (surr.)	1	%	-	108	-	-
13C8-PFOA (surr.)	1	%	-	105	-	-
13C5-PFNA (surr.)	1	%	-	109	-	-
13C6-PFDA (surr.)	1	%	-	123	-	-
13C2-PFUnDA (surr.)	1	%	-	119	-	-
13C2-PFDoDA (surr.)	1	%	-	100	-	-
13C2-PFTeDA (surr.)	1	%	-	137	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-

eurofins | Environment Testing

Client Sample ID			BH34/3_0.7-1	BH35/1_0-0.2	BH35/3_0.5-0.7	BH35/4_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077491	M24-My0077492	M24-My0077493	M24-My0077494
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	112	-	-
D3-N-MeFOSA (surr.)	1	%	-	97	-	-
D5-N-EtFOSA (surr.)	1	%	-	101	-	-
D7-N-MeFOSE (surr.)	1	%	-	124	-	-
D9-N-EtFOSE (surr.)	1	%	-	130	-	-
D5-N-EtFOSAA (surr.)	1	%	-	132	-	-
D3-N-MeFOSAA (surr.)	1	%	-	102	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	99	-	-
18O2-PFHxS (surr.)	1	%	-	98	-	-
13C8-PFOS (surr.)	1	%	-	105	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	91	-	-
13C2-6:2 FTSA (surr.)	1	%	-	93	-	-
13C2-8:2 FTSA (surr.)	1	%	-	103	-	-
13C2-10:2 FTSA (surr.)	1	%	-	96	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	-	-	9.8
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.3	-	-	7.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	< 0.02

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Client Sample ID			BH34/3_0.7-1	BH35/1_0-0.2	BH35/3_0.5-0.7	BH35/4_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077491	M24-My0077492	M24-My0077493	M24-My0077494
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.059	-	-	0.006
Peroxide Extractable Sulfur	0.005	% S	0.16	-	-	< 0.005
HCl Extractable Sulfur	0.005	% S	N/A	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.10	-	-	< 0.005
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	65	-	-	< 2
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.34	-	-	0.15
Calcium - Peroxide	0.005	% Ca	18	-	-	2.6
Calcium - Acid Reacted	0.005	% Ca	18	-	-	2.5
Calcium - Acid Reacted (s-aCa)	0.005	% S	14	-	-	2.0
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	8800	-	-	1200
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-	-	0.008
Magnesium - Peroxide	0.005	% Mg	0.19	-	-	0.074
Magnesium - Acid Reacted	0.005	% Mg	0.19	-	-	0.066
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.24	-	-	0.087
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	150	-	-	54
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	41	-	-	5.2
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	13	-	-	1.7
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	8200	-	-	1000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	150	-	-	190
>2mm Fraction	0.005	g	44	-	-	31
Analysed Material	0.1	%	77	-	-	86
Extraneous Material	0.1	%	23	-	-	14

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Client Sample ID			BH36/1_0-0.2	BH36/3_0.5-0.7	BH36/4_0.8-1	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077495	M24-My0077496	M24-My0077497	M24-My0077498
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	89
p-Terphenyl-d14 (surr.)	1	%	-	-	-	94

eurofins | Environment Testing

Client Sample ID			BH36/1_0-0.2	BH36/3_0.5-0.7	BH36/4_0.8-1	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077495	M24-My0077496	M24-My0077497	M24-My0077498
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	70
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	92
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-

eurofins | Environment Testing

Client Sample ID			BH36/1_0-0.2	BH36/3_0.5-0.7	BH36/4_0.8-1	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077495	M24-My0077496	M24-My0077497	M24-My0077498
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	92	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	3.2
Cadmium	0.4	mg/kg	-	-	-	0.9
Chromium	5	mg/kg	-	-	-	9.1
Copper	5	mg/kg	-	-	-	6.6
Lead	5	mg/kg	-	-	-	20
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	< 5
Zinc	5	mg/kg	-	-	-	140
Sample Properties						
% Moisture	1	%	3.2	31	46	2.1
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	9.0	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	91	-	-	90
13C5-PFPeA (surr.)	1	%	103	-	-	103
13C5-PFHxA (surr.)	1	%	107	-	-	107
13C4-PFHpA (surr.)	1	%	109	-	-	108
13C8-PFOA (surr.)	1	%	108	-	-	110
13C5-PFNA (surr.)	1	%	106	-	-	112
13C6-PFDA (surr.)	1	%	112	-	-	122
13C2-PFUnDA (surr.)	1	%	86	-	-	113
13C2-PFDoDA (surr.)	1	%	86	-	-	91
13C2-PFTeDA (surr.)	1	%	115	-	-	105

eurofins | Environment Testing

Client Sample ID			BH36/1_0-0.2	BH36/3_0.5-0.7	BH36/4_0.8-1	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077495	M24-My0077496	M24-My0077497	M24-My0077498
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	100	-	-	98
D3-N-MeFOSA (surr.)	1	%	97	-	-	96
D5-N-EtFOSA (surr.)	1	%	96	-	-	96
D7-N-MeFOSE (surr.)	1	%	107	-	-	116
D9-N-EtFOSE (surr.)	1	%	111	-	-	85
D5-N-EtFOSAA (surr.)	1	%	100	-	-	126
D3-N-MeFOSAA (surr.)	1	%	69	-	-	100
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	99	-	-	100
18O2-PFHxS (surr.)	1	%	98	-	-	100
13C8-PFOS (surr.)	1	%	107	-	-	109
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	98	-	-	103
13C2-6:2 FTSA (surr.)	1	%	96	-	-	97
13C2-8:2 FTSA (surr.)	1	%	85	-	-	98
13C2-10:2 FTSA (surr.)	1	%	73	-	-	83
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

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Client Sample ID			BH36/1_0-0.2	BH36/3_0.5-0.7	BH36/4_0.8-1	DUP02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077495	M24-My0077496	M24-My0077497	M24-My0077498
Date Sampled			May 22, 2024	May 22, 2024	May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit				
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	11	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.7	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.93	-
Peroxide Extractable Sulfur	0.005	% S	-	-	1.0	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.12	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	73	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	1.6	-
Calcium - Peroxide	0.005	% Ca	-	-	26	-
Calcium - Acid Reacted	0.005	% Ca	-	-	25	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	20	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	12000	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.005	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.31	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.30	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.40	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	250	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	60	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	19	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	12000	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	85	-
>2mm Fraction	0.005	g	-	-	7.3	-
Analysed Material	0.1	%	-	-	92	-
Extraneous Material	0.1	%	-	-	7.9	-

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Client Sample ID			DUP03
Sample Matrix			Soil
Eurofins Sample No.			M24-My0077499
Date Sampled			May 22, 2024
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	8.9
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	12
Copper	5	mg/kg	13
Lead	5	mg/kg	10
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	9.3
Zinc	5	mg/kg	42
Sample Properties			
% Moisture	1	%	2.5

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 29, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
% Moisture	Melbourne	May 28, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Volatile Organics	Melbourne	May 29, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Organotins	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Cyanide (total)	Melbourne	May 29, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	May 29, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 28, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	May 30, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	May 30, 2024	6 Week
- Method: LTM-GEN-7050/7070			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

OFFICIAL

Eurofins ARL Pty Ltd
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Eurofins ProMicro Pty Ltd
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Eurofins Environment Testing NZ Ltd
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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Perth	Perth ProMicro
46-48 Banksia Road	46-48 Banksia Road
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NATA# 2377	NATA# 2561
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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254			X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780												X					
External Laboratory																	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	BH01/1_0-0.8	May 22, 2024		Soil	M24-My0077471								X			X	X			
2	BH02/1_0.2	May 22, 2024		Soil	M24-My0077472			X		X			X		X	X	X	X	X	X
3	BH04/1_0-0.2	May 22, 2024		Soil	M24-My0077473									X			X		X	
4	BH04/2_0.2-0.4	May 22, 2024		Soil	M24-My0077474			X									X	X		
5	BH04/3_0.5-0.7	May 22, 2024		Soil	M24-My0077475			X						X			X			X
6	BH04/4_0.7-0.9	May 22, 2024		Soil	M24-My0077476											X	X			
7	BH05/1_0-0.3	May 22, 2024		Soil	M24-My0077477		X							X			X			
8	BH05/4_0.6-0.8	May 22, 2024		Soil	M24-My0077478											X	X			
9	BH11/1_0-0.2	May 22, 2024		Soil	M24-My0077479												X	X		

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
10	BH20/1_0-0.3	May 22, 2024		Soil	M24-My0077480					X			X		X	X		X	X		X	
11	BH20/3_0.6-0.8	May 22, 2024		Soil	M24-My0077481			X						X				X				X
12	BH20/4_0.8-0.9	May 22, 2024		Soil	M24-My0077482												X	X				
13	BH26/3_0.4-0.6	May 22, 2024		Soil	M24-My0077483													X	X			
14	BH29/1_0-0.2	May 22, 2024		Soil	M24-My0077484		X							X				X				
15	BH29/3_0.6-0.8	May 22, 2024		Soil	M24-My0077485			X		X			X		X	X		X	X			X
16	BH31/1_0-0.3	May 22, 2024		Soil	M24-My0077486									X				X			X	
17	BH32/1_0.4-0.7	May 22, 2024		Soil	M24-My0077487		X							X				X				
18	BH32/2_0-0.2	May 22, 2024		Soil	M24-My0077488									X			X	X				
19	BH33/2_0.1-0.4	May 22, 2024		Soil	M24-My0077489		X			X		X						X				X
20	BH34/1_0-0.2	May 22, 2024		Soil	M24-My0077490		X				X	X						X			X	

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
21	BH34/3_0.7-1	May 22, 2024		Soil	M24-My0077491					X							X	X				X
22	BH35/1_0-0.2	May 22, 2024		Soil	M24-My0077492	X												X			X	
23	BH35/3_0.5-0.7	May 22, 2024		Soil	M24-My0077493					X		X						X				X
24	BH35/4_0.8-1	May 22, 2024		Soil	M24-My0077494												X	X				
25	BH36/1_0-0.2	May 22, 2024		Soil	M24-My0077495							X						X			X	
26	BH36/3_0.5-0.7	May 22, 2024		Soil	M24-My0077496					X								X				
27	BH36/4_0.8-1	May 22, 2024		Soil	M24-My0077497												X	X				
28	DUP02	May 22, 2024		Soil	M24-My0077498						X							X	X		X	
29	DUP03	May 22, 2024		Soil	M24-My0077499									X				X				
30	RB01	May 22, 2024		Water	M24-My0077500															X	X	
31	FB01	May 22, 2024		Water	M24-My0077501																X	
32	BH01/2	May 22, 2024		Soil	M24-My0077502				X													
33	BH01/3	May 22, 2024		Soil	M24-My0077503				X													

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
34	BH01/4	May 22, 2024		Soil	M24-My0077504				X													
35	BH02/2	May 22, 2024		Soil	M24-My0077505				X													
36	BH02/3	May 22, 2024		Soil	M24-My0077506				X													
37	BH05/2	May 22, 2024		Soil	M24-My0077507				X													
38	BH05/3	May 22, 2024		Soil	M24-My0077508				X													
39	BH11/2	May 22, 2024		Soil	M24-My0077509				X													
40	BH11/3	May 22, 2024		Soil	M24-My0077510				X													
41	BH20/2	May 22, 2024		Soil	M24-My0077511				X													
42	BH26/2	May 22, 2024		Soil	M24-My0077512				X													
43	BH29/2	May 22, 2024		Soil	M24-My0077513				X													
44	BH29/4	May 22, 2024		Soil	M24-My0077514				X													
45	BH31/2	May 22, 2024		Soil	M24-My0077515				X													
46	BH31/3	May 22, 2024		Soil	M24-My0077516				X													
47	BH33/1	May 22, 2024		Soil	M24-My0077517				X													
48	BH33/3	May 22, 2024		Soil	M24-My0077518				X													

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Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																	X					
49	BH33/4	May 22, 2024		Soil	M24-My0077519				X													
50	BH34/2	May 22, 2024		Soil	M24-My0077520				X													
51	BH35/2	May 22, 2024		Soil	M24-My0077521				X													
52	BH36/2	May 22, 2024		Soil	M24-My0077522				X													
53	DUP01	May 22, 2024		Soil	M24-My0077523				X													
54	RB02	May 22, 2024		Water	M24-My0077524				X													
55	FB02	May 22, 2024		Water	M24-My0077525				X													
56	BH26/1	May 22, 2024		Soil	M24-My0077526				X													
Test Counts						1	5	4	25	8	2	4	3	9	4	3	7	29	8	1	10	7

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	109			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
TRH C6-C10	%	106			70-130	Pass	
TRH >C10-C16	%	99			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	96			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	%	81			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	91			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	96			70-130	Pass	
1.2-Dichlorobenzene	%	111			70-130	Pass	
1.2-Dichloroethane	%	119			70-130	Pass	
Trichloroethene	%	102			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	109			60-140	Pass	
Dibutyltin as Sn	%	112			60-140	Pass	
Monobutyltin as Sn	%	96			60-140	Pass	
LCS - % Recovery							
Cyanide (total)	%	83			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	92			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	93			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	95			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	103			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	104			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	92			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	100			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	97			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	99			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	95			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	77			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	102			50-150	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	103			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	94			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	96			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	110			70-130	Pass	
Acenaphthylene	%	110			70-130	Pass	
Anthracene	%	88			70-130	Pass	
Benz(a)anthracene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	78			70-130	Pass	
Benzo(k)fluoranthene	%	104			70-130	Pass	
Chrysene	%	102			70-130	Pass	
Dibenz(a.h)anthracene	%	78			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	119			70-130	Pass	
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	94			70-130	Pass	
a-HCH	%	106			70-130	Pass	
Aldrin	%	103			70-130	Pass	
b-HCH	%	102			70-130	Pass	
d-HCH	%	108			70-130	Pass	
Dieldrin	%	106			70-130	Pass	
Endosulfan I	%	105			70-130	Pass	
Endosulfan II	%	95			70-130	Pass	
Endosulfan sulphate	%	91			70-130	Pass	
Endrin	%	89			70-130	Pass	
Endrin aldehyde	%	82			70-130	Pass	

eurofins | Environment Testing

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone			%	96			70-130	Pass	
g-HCH (Lindane)			%	109			70-130	Pass	
Heptachlor			%	93			70-130	Pass	
Heptachlor epoxide			%	126			70-130	Pass	
Hexachlorobenzene			%	112			70-130	Pass	
Methoxychlor			%	86			70-130	Pass	
LCS - % Recovery									
Organophosphorus Pesticides									
Diazinon			%	98			70-130	Pass	
Dimethoate			%	81			70-130	Pass	
Ethion			%	109			70-130	Pass	
Fenitrothion			%	85			70-130	Pass	
Methyl parathion			%	95			70-130	Pass	
Mevinphos			%	71			70-130	Pass	
LCS - % Recovery									
Polychlorinated Biphenyls									
Aroclor-1260			%	115			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-My0076853	NCP	%	107			70-130	Pass	
TRH C10-C14	M24-My0083359	NCP	%	107			70-130	Pass	
TRH C6-C10	M24-My0076853	NCP	%	104			70-130	Pass	
TRH >C10-C16	M24-My0083359	NCP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-My0076853	NCP	%	90			70-130	Pass	
Toluene	M24-My0076853	NCP	%	94			70-130	Pass	
Ethylbenzene	M24-My0076853	NCP	%	95			70-130	Pass	
m&p-Xylenes	M24-My0076853	NCP	%	98			70-130	Pass	
o-Xylene	M24-My0076853	NCP	%	99			70-130	Pass	
Xylenes - Total*	M24-My0076853	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-My0076853	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-My0074501	NCP	%	93			70-130	Pass	
4.4'-DDD	M24-My0074501	NCP	%	121			70-130	Pass	
4.4'-DDE	M24-My0074501	NCP	%	113			70-130	Pass	
4.4'-DDT	M24-My0074501	NCP	%	129			70-130	Pass	
a-HCH	M24-My0074501	NCP	%	97			70-130	Pass	
Aldrin	M24-My0074501	NCP	%	101			70-130	Pass	
b-HCH	M24-My0074501	NCP	%	113			70-130	Pass	
d-HCH	M24-My0074501	NCP	%	106			70-130	Pass	
Dieldrin	M24-My0074501	NCP	%	92			70-130	Pass	
Endosulfan I	M24-My0074501	NCP	%	119			70-130	Pass	
Endosulfan II	M24-My0074501	NCP	%	101			70-130	Pass	
Endosulfan sulphate	M24-My0074501	NCP	%	101			70-130	Pass	
Endrin	M24-My0074501	NCP	%	113			70-130	Pass	
Endrin aldehyde	M24-My0074501	NCP	%	118			70-130	Pass	
Endrin ketone	M24-My0074501	NCP	%	98			70-130	Pass	
g-HCH (Lindane)	M24-My0074501	NCP	%	97			70-130	Pass	
Heptachlor	M24-My0074501	NCP	%	112			70-130	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	M24-My0074501	NCP	%	91			70-130	Pass	
Hexachlorobenzene	M24-My0074501	NCP	%	102			70-130	Pass	
Methoxychlor	M24-My0074501	NCP	%	120			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-My0077472	CP	%	101			70-130	Pass	
Ethion	M24-My0077472	CP	%	77			70-130	Pass	
Fenitrothion	M24-My0077472	CP	%	127			70-130	Pass	
Methyl parathion	M24-My0077472	CP	%	99			70-130	Pass	
Mevinphos	M24-My0077472	CP	%	122			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-My0082829	NCP	%	128			70-130	Pass	
1.2-Dichlorobenzene	M24-My0082829	NCP	%	118			70-130	Pass	
1.2-Dichloroethane	M24-My0082829	NCP	%	127			70-130	Pass	
Trichloroethene	M24-My0082829	NCP	%	98			70-130	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M24-My0075569	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-My0077479	CP	%	84			70-130	Pass	
Acenaphthylene	M24-My0077479	CP	%	74			70-130	Pass	
Anthracene	M24-My0077479	CP	%	103			70-130	Pass	
Benz(a)anthracene	M24-My0077479	CP	%	93			70-130	Pass	
Benzo(a)pyrene	M24-My0077479	CP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	M24-My0077479	CP	%	105			70-130	Pass	
Benzo(g.h.i)perylene	M24-My0077479	CP	%	80			70-130	Pass	
Benzo(k)fluoranthene	M24-My0077479	CP	%	101			70-130	Pass	
Chrysene	M24-My0077479	CP	%	80			70-130	Pass	
Dibenz(a.h)anthracene	M24-My0077479	CP	%	77			70-130	Pass	
Fluoranthene	M24-My0077479	CP	%	96			70-130	Pass	
Fluorene	M24-My0077479	CP	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-My0077479	CP	%	71			70-130	Pass	
Naphthalene	M24-My0077479	CP	%	84			70-130	Pass	
Phenanthrene	M24-My0077479	CP	%	70			70-130	Pass	
Pyrene	M24-My0077479	CP	%	115			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Dimethoate	M24-My0071485	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-My0077480	CP	%	97			75-125	Pass	
Cadmium	M24-My0077480	CP	%	103			75-125	Pass	
Chromium	M24-My0077480	CP	%	90			75-125	Pass	
Copper	M24-My0077480	CP	%	76			75-125	Pass	
Lead	M24-My0077480	CP	%	91			75-125	Pass	
Mercury	M24-My0077480	CP	%	96			75-125	Pass	
Nickel	M24-My0077480	CP	%	84			75-125	Pass	
Zinc	M24-My0077480	CP	%	79			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-My0077495	CP	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0077495	CP	%	84			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanoic acid (PFHxA)	M24-My0077495	CP	%	82			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0077495	CP	%	84			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0077495	CP	%	83			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-My0077495	CP	%	84			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0077495	CP	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0077495	CP	%	90			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0077495	CP	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0077495	CP	%	100			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0077495	CP	%	86			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-My0077495	CP	%	94			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0077495	CP	%	92			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0077495	CP	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0077495	CP	%	85			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0077495	CP	%	93			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0077495	CP	%	86			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0077495	CP	%	84			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-My0077495	CP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0077495	CP	%	72			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0077495	CP	%	77			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0077495	CP	%	90			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0077495	CP	%	91			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0077495	CP	%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0077495	CP	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0077495	CP	%	64			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0077495	CP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0077495	CP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0077495	CP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0077495	CP	%	94			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-My0077198	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-My0077198	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-My0077198	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-My0077198	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-My0077198	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-My0077198	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-My0077471	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-My0077471	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-My0077471	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-My0077471	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-My0077471	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-My0077471	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1221	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1232	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1242	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1248	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1254	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Aroclor-1260	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Total PCB*	M24-My0077471	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2-Dichloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-My0081188	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-My0081657	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-My0081657	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-My0081657	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-My0081657	NCP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-My0077474	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-My0077474	CP	mg/kg	< 20	< 20	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-My0077474	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-My0077474	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-My0077474	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-My0077474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-My0077474	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-My0077474	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-My0077474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-My0077474	CP	%	12	12	1.2	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-My0077477	CP	mg/kg	6.0	5.5	8.7	30%	Pass	
Cadmium	M24-My0077477	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-My0077477	CP	mg/kg	14	14	1.8	30%	Pass	
Copper	M24-My0077477	CP	mg/kg	11	11	3.7	30%	Pass	
Lead	M24-My0077477	CP	mg/kg	20	23	13	30%	Pass	
Mercury	M24-My0077477	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-My0077477	CP	mg/kg	6.9	7.2	4.9	30%	Pass	
Zinc	M24-My0077477	CP	mg/kg	36	39	7.6	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	M24-My0077485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-My0077485	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	M24-My0077485	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-My0077485	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-My0077485	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-My0077485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-My0077485	CP	%	7.3	6.8	6.7	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-My0077485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-My0077485	CP	pH Units	9.1	8.9	pass	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	M24-My0077490	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-My0077490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-My0077490	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-My0077490	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-My0077490	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tokuthion	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-My0077490	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-My0077490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0077492	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0077492	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0077492	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0077492	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-My0077495	CP	%	3.2	4.0	24	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-My0077497	CP	pH Units	11	11	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077497	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077497	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-My0077497	CP	pH Units	8.7	8.7	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-My0077497	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-My0077497	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-My0077497	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-My0077497	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-My0077497	CP	% S	0.93	0.90	2.4	30%	Pass	
Peroxide Extractable Sulfur	M24-My0077497	CP	% S	1.0	1.0	<1	20%	Pass	
HCl Extractable Sulfur	M24-My0077497	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-My0077497	CP	% S	0.12	0.14	19	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-My0077497	CP	mol H+/t	73	87	19	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-My0077497	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-My0077497	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-My0077497	CP	% Ca	1.6	1.6	2.4	30%	Pass	
Calcium - Peroxide	M24-My0077497	CP	% Ca	26	23	15	20%	Pass	
Calcium - Acid Reacted	M24-My0077497	CP	% Ca	25	21	15	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-My0077497	CP	% S	20	17	15	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-My0077497	CP	mol H+/t	12000	11000	15	30%	Pass	

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Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-My0077497	CP	% Mg	0.005	0.006	14	30%	Pass	
Magnesium - Peroxide	M24-My0077497	CP	% Mg	0.31	0.25	21	20%	Fail	Q15
Magnesium - Acid Reacted	M24-My0077497	CP	% Mg	0.30	0.24	22	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-My0077497	CP	% S	0.40	0.32	22	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-My0077497	CP	mol H+/t	250	200	22	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-My0077497	CP	% CaCO3	60	50	20	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-My0077497	CP	mol H+/t	12000	9900	20	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-My0077497	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-My0077497	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-My0077497	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-My0077497	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	

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Comments

This report has been revised V2 to correct sample names to include sample depths. Per COC.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Laxman Dias	Senior Analyst-Asbestos
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1101684-W**
Project name OSBOURNE EIS
Project ID 67064
Received Date May 27, 2024

Client Sample ID			**RB01**	**FB01**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M24-My0077500**	**M24-My0077501**
Date Sampled			**May 22, 2024**	**May 22, 2024**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB01	FB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-My0077500	M24-My0077501
Date Sampled			May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	77	77
13C5-PFPeA (surr.)	1	%	93	94
13C5-PFHxA (surr.)	1	%	102	103
13C4-PFHpA (surr.)	1	%	103	99
13C8-PFOA (surr.)	1	%	97	91
13C5-PFNA (surr.)	1	%	98	91
13C6-PFDA (surr.)	1	%	81	77
13C2-PFUnDA (surr.)	1	%	77	70
13C2-PFDoDA (surr.)	1	%	82	65
13C2-PFTeDA (surr.)	1	%	83	59
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	92	85
D3-N-MeFOSA (surr.)	1	%	107	43
D5-N-EtFOSA (surr.)	1	%	113	61
D7-N-MeFOSE (surr.)	1	%	150	90
D9-N-EtFOSE (surr.)	1	%	134	80
D5-N-EtFOSAA (surr.)	1	%	76	65
D3-N-MeFOSAA (surr.)	1	%	72	70
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB01	FB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-My0077500	M24-My0077501
Date Sampled			May 22, 2024	May 22, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	105	105
18O2-PFHxS (surr.)	1	%	94	93
13C8-PFOS (surr.)	1	%	79	79
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	88	90
13C2-6:2 FTSA (surr.)	1	%	89	86
13C2-8:2 FTSA (surr.)	1	%	71	65
13C2-10:2 FTSA (surr.)	1	%	80	77
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 28, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 28, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 28, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 28, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 28, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 28, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 28, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 28, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 28, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 28, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: OSBOURNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794																X					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	BH01/1	May 22, 2024		Soil	M24-My0077471									X			X	X			
2	BH02/1	May 22, 2024		Soil	M24-My0077472		X		X			X		X	X		X	X		X	X
3	BH04/1	May 22, 2024		Soil	M24-My0077473								X				X			X	
4	BH04/2	May 22, 2024		Soil	M24-My0077474				X								X	X			
5	BH04/3	May 22, 2024		Soil	M24-My0077475		X						X				X				X
6	BH04/4	May 22, 2024		Soil	M24-My0077476											X	X				
7	BH05/1	May 22, 2024		Soil	M24-My0077477	X							X				X				
8	BH05/4	May 22, 2024		Soil	M24-My0077478											X	X				
9	BH11/1	May 22, 2024		Soil	M24-My0077479												X	X			
10	BH20/1	May 22, 2024		Soil	M24-My0077480				X			X		X	X		X	X		X	
11	BH20/3	May 22, 2024		Soil	M24-My0077481		X						X				X				X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: OSBOURNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794																X					
12	BH20/4	May 22, 2024		Soil	M24-My0077482											X	X				
13	BH26/3	May 22, 2024		Soil	M24-My0077483												X	X			
14	BH29/1	May 22, 2024		Soil	M24-My0077484	X							X				X				
15	BH29/3	May 22, 2024		Soil	M24-My0077485		X		X			X		X	X		X	X			X
16	BH31/1	May 22, 2024		Soil	M24-My0077486								X				X			X	
17	BH32/1	May 22, 2024		Soil	M24-My0077487	X							X				X				
18	BH32/2	May 22, 2024		Soil	M24-My0077488								X			X	X				
19	BH33/2	May 22, 2024		Soil	M24-My0077489	X			X		X						X				X
20	BH34/1	May 22, 2024		Soil	M24-My0077490	X				X	X						X			X	
21	BH34/3	May 22, 2024		Soil	M24-My0077491				X							X	X				X
22	BH35/1	May 22, 2024		Soil	M24-My0077492	X											X			X	
23	BH35/3	May 22, 2024		Soil	M24-My0077493				X		X						X				X
24	BH35/4	May 22, 2024		Soil	M24-My0077494											X	X				
25	BH36/1	May 22, 2024		Soil	M24-My0077495						X						X			X	

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: OSBOURNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794																X					
26	BH36/3	May 22, 2024		Soil	M24-My0077496				X								X				
27	BH36/4	May 22, 2024		Soil	M24-My0077497											X	X				
28	DUP02	May 22, 2024		Soil	M24-My0077498					X							X	X		X	
29	DUP03	May 22, 2024		Soil	M24-My0077499								X				X				
30	RB01	May 22, 2024		Water	M24-My0077500														X	X	
31	FB01	May 22, 2024		Water	M24-My0077501															X	
32	BH01/2	May 22, 2024		Soil	M24-My0077502			X													
33	BH01/3	May 22, 2024		Soil	M24-My0077503			X													
34	BH01/4	May 22, 2024		Soil	M24-My0077504			X													
35	BH02/2	May 22, 2024		Soil	M24-My0077505			X													
36	BH02/3	May 22, 2024		Soil	M24-My0077506			X													
37	BH05/2	May 22, 2024		Soil	M24-My0077507			X													
38	BH05/3	May 22, 2024		Soil	M24-My0077508			X													
39	BH11/2	May 22, 2024		Soil	M24-My0077509			X													

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Project Name: OSBOURNE EIS
Project ID: 67064

Order No.:
Report #: 1101684
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794																X					
40	BH11/3	May 22, 2024		Soil	M24-My0077510			X													
41	BH20/2	May 22, 2024		Soil	M24-My0077511			X													
42	BH26/2	May 22, 2024		Soil	M24-My0077512			X													
43	BH29/2	May 22, 2024		Soil	M24-My0077513			X													
44	BH29/4	May 22, 2024		Soil	M24-My0077514			X													
45	BH31/2	May 22, 2024		Soil	M24-My0077515			X													
46	BH31/3	May 22, 2024		Soil	M24-My0077516			X													
47	BH33/1	May 22, 2024		Soil	M24-My0077517			X													
48	BH33/3	May 22, 2024		Soil	M24-My0077518			X													
49	BH33/4	May 22, 2024		Soil	M24-My0077519			X													
50	BH34/2	May 22, 2024		Soil	M24-My0077520			X													
51	BH35/2	May 22, 2024		Soil	M24-My0077521			X													
52	BH36/2	May 22, 2024		Soil	M24-My0077522			X													
53	DUP01	May 22, 2024		Soil	M24-My0077523			X													

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Phone: 08 8431 7113
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Received: May 27, 2024 10:12 AM
Due: Jun 3, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794																X					
54	RB02	May 22, 2024		Water	M24-My0077524			X													
55	FB02	May 22, 2024		Water	M24-My0077525			X													
56	BH26/1	May 22, 2024		Soil	M24-My0077526			X													
Test Counts						6	4	25	8	2	4	3	9	4	3	7	29	8	1	10	7

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	98			70-130	Pass	
TRH C10-C14	%	127			70-130	Pass	
TRH C6-C10	%	118			70-130	Pass	
TRH >C10-C16	%	119			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	121			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	125			70-130	Pass	
Xylenes - Total*	%	124			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	117			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	117			80-120	Pass	
Cadmium	%	116			80-120	Pass	
Chromium	%	118			80-120	Pass	
Copper	%	116			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	94			80-120	Pass	
Zinc	%	118			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	88			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	116			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	110			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	111			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	118			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	125			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	139			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	%	135			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	125			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	111			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	109			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	105			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	97			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	112			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	100			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	106			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	91			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	112			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	97			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	117			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	100			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	108			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-My0060966	NCP	%	98			70-130	Pass	
TRH >C10-C16	M24-My0060966	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-My0088744	NCP	%	115			75-125	Pass	
Cadmium	M24-My0088744	NCP	%	115			75-125	Pass	
Chromium	M24-My0079920	NCP	%	84			75-125	Pass	
Copper	M24-My0088744	NCP	%	112			75-125	Pass	
Lead	M24-My0088744	NCP	%	111			75-125	Pass	
Mercury	M24-My0088744	NCP	%	105			75-125	Pass	
Nickel	M24-My0079920	NCP	%	86			75-125	Pass	
Zinc	M24-My0088744	NCP	%	115			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-My0079568	NCP	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0079568	NCP	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0079568	NCP	%	113			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0079568	NCP	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0079568	NCP	%	116			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-My0079568	NCP	%	106			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0079568	NCP	%	119			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	M24-My0079568	NCP	%	137			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0079568	NCP	%	125			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0079568	NCP	%	96			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0079568	NCP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-My0079568	NCP	%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0079568	NCP	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0079568	NCP	%	105			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0079568	NCP	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0079568	NCP	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0079568	NCP	%	99			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0079568	NCP	%	112			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-My0079568	NCP	%	99			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0079568	NCP	%	99			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0079568	NCP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0079568	NCP	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0079568	NCP	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0079568	NCP	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0079568	NCP	%	85			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0079568	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0079568	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0079568	NCP	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0079568	NCP	%	106			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-My0060938	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M24-My0079973	NCP	mg/L	0.18	0.12	40	30%	Fail	Q15
TRH C29-C36	M24-My0079973	NCP	mg/L	0.2	< 0.1	200	30%	Fail	Q15
TRH C6-C10	M24-My0060938	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-My0079973	NCP	mg/L	0.63	0.38	50	30%	Fail	Q15
TRH >C34-C40	M24-My0079973	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-My0060938	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-My0060938	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-My0060938	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-My0088744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M24-My0088744	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-My0088744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-My0088744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M24-My0088744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-My0088744	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-My0088744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M24-My0088744	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-My0073864	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-My0079566	NCP	ug/L	0.06	0.06	2.5	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-My0079566	NCP	ug/L	0.08	0.08	5.6	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0073864	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0073864	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0079566	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0079566	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0079566	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0079566	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0079566	NCP	ug/L	0.58	0.58	1.5	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0073864	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0079566	NCP	ug/L	0.03	0.03	5.0	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0079566	NCP	ug/L	0.05	0.05	3.8	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0079566	NCP	ug/L	0.02	0.02	5.1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0079566	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-PFAS
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5926	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 22/5/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au
ajames@jbsg.com.au

#1101721
25/05/2024

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B (TRH/BTEX/M8)	'NOTES
BH73/1	0	0.2	Soil	23/05/2024		1 Jar, 1 Asbestos bag, 1 PFAS Jar	3		X					X											
BH73/2	0.3	0.5	Soil	23/05/2024		1 Jar	1								X	X	X		X						
BH73/3	0.7	1	Soil	23/05/2024		1 Jar, SPOCAS Bag	2					X	X				X				X				
BH74/1	0	0.2	Soil	23/05/2024		1 Jar, 1 PFAS Jar	2																		
BH74/2	0.3	0.5	Soil	23/05/2024		1 Jar	1																		
BH74/3	0.8	1	Soil	23/05/2024		1 Jar, SPOCAS Bag	2						X		X		X	X	X	X		X			
BH75/1	0	0.2	Soil	23/05/2024		1 Jar, 1 Asbestos bag, 1 PFAS Jar	3		X					X											
BH75/2	0.3	0.5	Soil	23/05/2024		1 Jar	1					X					X				X				
BH75/3	0.8	1	Soil	23/05/2024		1 Jar, SPOCAS Bag	2						X												
BH79/1	0	0.3	Soil	23/05/2024		1 Jar, 1 Asbestos bag	2																		
BH81/1	0	0.2	Soil	23/05/2024		1 Jar	1																		
BH81/2	0.3	0.5	Soil	23/05/2024		1 Jar	1																		
BH81/3	0.7	1	Soil	23/05/2024		1 Jar, SPOCAS Bag	2					X	X		X		X	X			X				
BH82/1	0	0.2	Soil	23/05/2024		1 Jar, 1 Asbestos bag	2							X											
BH82/2	0.3	0.5	Soil	23/05/2024		1 Jar	1					X			X			X		X	X	X			
BH82/3	0.7	0.9	Soil	23/05/2024		1 Jar	1																		
BH84/1	0	0.2	Soil	23/05/2024		1 Jar, 1 Asbestos bag	2							X											
BH84/2	0.4	0.6	Soil	23/05/2024		1 Jar	1					X			X			X		X	X	X			
BH84/3	0.6	0.8	Soil	23/05/2024		1 Jar	1																		
BH85/1	0	0.2	Soil	23/05/2024		1 Jar	1																		
BH85/2	0.3	0.5	Soil	23/05/2024		1 Jar	1																		
BH85/3	0.7	1	Soil	23/05/2024		1 Jar	1								X		X								
BH93/1	0	0.2	Soil	23/05/2024		1 Jar, 1 Asbestos bag, 1 PFAS Jar	3		X					X											
BH93/2	0.3	0.5	Soil	23/05/2024		1 Jar	1								X		X	X	X	X		X			
BH93/3	0.8	1	Soil	23/05/2024		1 Jar, SPOCAS Bag	2						X												
DUP04	0	0.2	Soil	23/05/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT04	0	0.2	Soil	23/05/2024		1 Jar, 1 PFAS Jar	2																		
RB03	-	-	Water	23/05/2024		1A, 2V,1 Metals 1 PFAS	5		X																X	
FB02	-	-	Water	23/05/2024		1 PFAS	1		X																	
								TOTAL	5	0	0	5	5	5	7	1	7	5	0	0	0	0	0	1	

Harry Bacalis

From: Kate Lough <klough@jbsg.com.au>
Sent: Monday, 27 May 2024 10:47 AM
To: Amy.Meunier@eurofinsanz.com; Harry Bacalis
Subject: Completed COC for soil samples collected 23nd May (Osborne 67064)
Attachments: Batch 2_COC 5926_Eurofins.xlsx

Importance: High

Hi Amy and Harry,

Please find attached completed COC for soil samples collected last Thursday (23rd May) for Osborne.

Please ensure samples are extracted / analysed within holding time.

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

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PROJECT INFORMATION

Date Received: 24/05/24

Company: JBS&G

Contact person: Kate. L

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 67064

COC: Attached ☐
E-mailed ☑
Not received ☐

on IB

ASS bags were frozen.

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Jack Ayers
Project name:	OSBORNE EIS
Project ID:	67064
Turnaround time:	5 Day
Date/Time received	May 24, 2024 10:47 AM
Eurofins reference	1101721

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

RECIEVED SPLT 4, NO LOCATION WAS PROVIDED LOGGED FOR HOLD.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Jack Ayers - jayers@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

Attention:	Jack Ayers
Report	1101721-AID-V3
Project Name	OSBORNE EIS
Project ID	67064
Received Date	May 24, 2024
Date Reported	Jul 02, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name OSBORNE EIS
Project ID 67064
Date Sampled May 23, 2024
Report 1101721-AID-V3

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH73/1_0-0.2	24-My0077591	May 23, 2024	Approximate Sample 800g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH75/1_0-0.2	24-My0077595	May 23, 2024	Approximate Sample 926g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH82/1_0-0.2	24-My0077599	May 23, 2024	Approximate Sample 791g Sample consisted of: Brown fine-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH84/1_0-0.2	24-My0077601	May 23, 2024	Approximate Sample 537g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH93/1_0-0.2	24-My0077604	May 23, 2024	Approximate Sample 859g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 03, 2024	Indefinite

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2370

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101721
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2024 10:47 AM
Due: Jun 7, 2024
Priority: 10 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	BH73/1_0-0.2	May 23, 2024		Soil	M24-My0077591	X										X		X	
2	BH73/2_0.3_0.5	May 23, 2024		Soil	M24-My0077592				X	X		X				X	X		
3	BH73/3_0.7-1	May 23, 2024		Soil	M24-My0077593		X					X			X	X			X
4	BH74/3_0.8-1	May 23, 2024		Soil	M24-My0077594				X	X	X	X	X	X	X	X			
5	BH75/1_0-0.2	May 23, 2024		Soil	M24-My0077595	X										X		X	
6	BH75/2_0.3-0.5	May 23, 2024		Soil	M24-My0077596		X					X				X			X
7	BH75/3_0.8-1	May 23, 2024		Soil	M24-My0077597										X	X			
8	BH81/3_0.7-1	May 23, 2024		Soil	M24-My0077598		X		X			X		X	X	X			X
9	BH82/1_0-0.2	May 23, 2024		Soil	M24-My0077599	X													
10	BH82/2_03-0.5	May 23, 2024		Soil	M24-My0077600		X		X		X		X	X		X			X
11	BH84/1_0-0.2	May 23, 2024		Soil	M24-My0077601	X													

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Site# 25403

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NATA# 1261
Site# 18217

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Address: 100 Hutt St
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SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
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Phone: 08 8431 7113
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Received: May 24, 2024 10:47 AM
Due: Jun 7, 2024
Priority: 10 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
12	BH84/2_0.4-0.6	May 23, 2024		Soil	M24-My0077602		X		X		X		X	X		X			X
13	BH85/3_0.7-1	May 23, 2024		Soil	M24-My0077603				X			X				X			
14	BH93/1_0-0.2	May 23, 2024		Soil	M24-My0077604	X										X		X	
15	BH93/2_0.3-0.5	May 23, 2024		Soil	M24-My0077605				X	X	X	X	X	X		X			
16	BH93/3_0.8-1	May 23, 2024		Soil	M24-My0077606										X	X			
17	RB03	May 23, 2024		Water	M24-My0077607							X					X	X	
18	FB02	May 23, 2024		Water	M24-My0077608													X	
19	BH74/1	May 23, 2024		Soil	M24-My0077609			X											
20	BH74/2	May 23, 2024		Soil	M24-My0077610			X											
21	BH79/1	May 23, 2024		Soil	M24-My0077611			X											
22	BH81/1	May 23, 2024		Soil	M24-My0077612			X											
23	BH81/2	May 23, 2024		Soil	M24-My0077613			X											
24	BH82/3	May 23, 2024		Soil	M24-My0077614			X											

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101721
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2024 10:47 AM
Due: Jun 7, 2024
Priority: 10 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X									X				
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
25	BH84/3	May 23, 2024		Soil	M24-My0077615			X											
26	BH85/1	May 23, 2024		Soil	M24-My0077616			X											
27	BH85/2	May 23, 2024		Soil	M24-My0077617			X											
28	DUP04	May 23, 2024		Soil	M24-My0077618			X											
29	SPLIT04	May 23, 2024		Soil	M24-My0077619			X											
Test Counts						5	5	11	7	3	4	8	4	5	5	14	2	5	5

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V = r x t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jack Ayers**

Report **1101721-S-V3**
Project name OSBORNE EIS
Project ID 67064
Received Date May 24, 2024

Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	3.9	8.8	14	8.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	51	-	-	-
13C5-PFPeA (surr.)	1	%	67	-	-	-
13C5-PFHxA (surr.)	1	%	72	-	-	-
13C4-PFHpA (surr.)	1	%	82	-	-	-
13C8-PFOA (surr.)	1	%	95	-	-	-
13C5-PFNA (surr.)	1	%	95	-	-	-
13C6-PFDA (surr.)	1	%	79	-	-	-
13C2-PFUnDA (surr.)	1	%	71	-	-	-
13C2-PFDoDA (surr.)	1	%	71	-	-	-
13C2-PFTeDA (surr.)	1	%	86	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-

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Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	74	-	-	-
D3-N-MeFOSA (surr.)	1	%	114	-	-	-
D5-N-EtFOSA (surr.)	1	%	122	-	-	-
D7-N-MeFOSE (surr.)	1	%	101	-	-	-
D9-N-EtFOSE (surr.)	1	%	90	-	-	-
D5-N-EtFOSAA (surr.)	1	%	82	-	-	-
D3-N-MeFOSAA (surr.)	1	%	85	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	75	-	-	-
18O2-PFHxS (surr.)	1	%	81	-	-	-
13C8-PFOS (surr.)	1	%	82	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	90	-	-	-
13C2-6:2 FTSA (surr.)	1	%	117	-	-	-
13C2-8:2 FTSA (surr.)	1	%	93	-	-	-
13C2-10:2 FTSA (surr.)	1	%	81	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-

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Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	88	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	77	-	76
p-Terphenyl-d14 (surr.)	1	%	-	69	-	95
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.3	-	7.9
Cyanide (total)	5	mg/kg	-	-	< 5	-
Heavy Metals						
Arsenic	2	mg/kg	-	4.5	4.1	2.9
Cadmium	0.4	mg/kg	-	0.5	0.7	< 0.4
Chromium	5	mg/kg	-	8.3	8.8	6.6
Copper	5	mg/kg	-	11	15	8.7
Lead	5	mg/kg	-	51	62	11
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	6.6	11	< 5
Zinc	5	mg/kg	-	38	31	21

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Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	117	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.7	9.6
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	7.6	7.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.24	0.15
Peroxide Extractable Sulfur	0.005	% S	-	-	0.34	0.21
HCl Extractable Sulfur	0.005	% S	-	-	N/A	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.098	0.065
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	61	41
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.51	0.31
Calcium - Peroxide	0.005	% Ca	-	-	15	7.0
Calcium - Acid Reacted	0.005	% Ca	-	-	14	6.7
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	12	5.4
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	7200	3300
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.013	0.033
Magnesium - Peroxide	0.005	% Mg	-	-	0.34	0.41
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.33	0.38
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.43	0.50
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	270	310
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	34	15
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	11	4.8
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	6800	3000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	1.5

eurofins | Environment Testing

Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	150	190
>2mm Fraction	0.005	g	-	-	8.2	9.8
Analysed Material	0.1	%	-	-	95	95
Extraneous Material	0.1	%	-	-	5.3	5.0
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1

eurofins | Environment Testing

Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	90
Toluene-d8 (surr.)	1	%	-	-	-	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	100
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	89

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Client Sample ID			BH73/1_0-0.2	BH73/2_0.3_0.5	BH73/3_0.7-1	BH74/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077591	M24-My0077592	M24-My0077593	M24-My0077594
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	65
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	100
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	89

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Client Sample ID			BH75/1_0-0.2	BH75/2_0.3-0.5	BH75/3_0.8-1	BH81/3_0.7-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077595	M24-My0077596	M24-My0077597	M24-My0077598
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	4.3	10	18	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	22	-	-	-
13C5-PFPeA (surr.)	1	%	39	-	-	-
13C5-PFHxA (surr.)	1	%	50	-	-	-
13C4-PFHpA (surr.)	1	%	66	-	-	-
13C8-PFOA (surr.)	1	%	80	-	-	-
13C5-PFNA (surr.)	1	%	80	-	-	-
13C6-PFDA (surr.)	1	%	65	-	-	-
13C2-PFUnDA (surr.)	1	%	66	-	-	-
13C2-PFDoDA (surr.)	1	%	69	-	-	-
13C2-PFTeDA (surr.)	1	%	83	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	71	-	-	-
D3-N-MeFOSA (surr.)	1	%	110	-	-	-
D5-N-EtFOSA (surr.)	1	%	112	-	-	-
D7-N-MeFOSE (surr.)	1	%	100	-	-	-
D9-N-EtFOSE (surr.)	1	%	85	-	-	-
D5-N-EtFOSAA (surr.)	1	%	69	-	-	-
D3-N-MeFOSAA (surr.)	1	%	66	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-

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Client Sample ID			BH75/1_0-0.2	BH75/2_0.3-0.5	BH75/3_0.8-1	BH81/3_0.7-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077595	M24-My0077596	M24-My0077597	M24-My0077598
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	58	-	-	-
18O2-PFHxS (surr.)	1	%	75	-	-	-
13C8-PFOS (surr.)	1	%	76	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	56	-	-	-
13C2-6:2 FTSA (surr.)	1	%	92	-	-	-
13C2-8:2 FTSA (surr.)	1	%	80	-	-	-
13C2-10:2 FTSA (surr.)	1	%	95	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	7.6
Cyanide (total)	5	mg/kg	-	< 5	-	< 5
Heavy Metals						
Arsenic	2	mg/kg	-	4.6	-	3.2
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	7.6	-	12
Copper	5	mg/kg	-	9.4	-	7.0
Lead	5	mg/kg	-	24	-	14
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	< 5	-	6.1
Zinc	5	mg/kg	-	24	-	26
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	< 1.25
Dibutyltin	1	mg/kg	-	< 1	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Monobutyltin	0.75	mg/kg	-	< 0.75	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	126	-	125
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.9	9.5
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	< 0.003

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Client Sample ID			BH75/1_0-0.2	BH75/2_0.3-0.5	BH75/3_0.8-1	BH81/3_0.7-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077595	M24-My0077596	M24-My0077597	M24-My0077598
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	7.8	7.6
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.28	0.13
Peroxide Extractable Sulfur	0.005	% S	-	-	0.38	0.21
HCl Extractable Sulfur	0.005	% S	-	-	N/A	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.096	0.086
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	60	54
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.62	0.30
Calcium - Peroxide	0.005	% Ca	-	-	12	9.3
Calcium - Acid Reacted	0.005	% Ca	-	-	11	9.0
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	9.0	7.2
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	5600	4500
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.010	0.031
Magnesium - Peroxide	0.005	% Mg	-	-	0.34	0.38
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.33	0.34
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.44	0.45
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	270	280
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	26	21
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	8.3	6.6
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	5200	4100
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	150	190
>2mm Fraction	0.005	g	-	-	3.0	6.3
Analysed Material	0.1	%	-	-	98	97
Extraneous Material	0.1	%	-	-	1.9	3.2
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH75/1_0-0.2	BH75/2_0.3-0.5	BH75/3_0.8-1	BH81/3_0.7-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077595	M24-My0077596	M24-My0077597	M24-My0077598
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3

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Client Sample ID			BH75/1_0-0.2	BH75/2_0.3-0.5	BH75/3_0.8-1	BH81/3_0.7-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077595	M24-My0077596	M24-My0077597	M24-My0077598
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	101
Toluene-d8 (surr.)	1	%	-	-	-	98

Client Sample ID			BH82/2_03-0.5	BH84/2_0.4-0.6	BH85/3_0.7-1	BH93/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077600	M24-My0077602	M24-My0077603	M24-My0077604
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	10	15	16	4.9
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	20
13C5-PFPeA (surr.)	1	%	-	-	-	36
13C5-PFHxA (surr.)	1	%	-	-	-	48
13C4-PFHpA (surr.)	1	%	-	-	-	65
13C8-PFOA (surr.)	1	%	-	-	-	74
13C5-PFNA (surr.)	1	%	-	-	-	77
13C6-PFDA (surr.)	1	%	-	-	-	65
13C2-PFUnDA (surr.)	1	%	-	-	-	65
13C2-PFDoDA (surr.)	1	%	-	-	-	66
13C2-PFTeDA (surr.)	1	%	-	-	-	82
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10

eurofins | Environment Testing

Client Sample ID			BH82/2_03-0.5	BH84/2_0.4-0.6	BH85/3_0.7-1	BH93/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077600	M24-My0077602	M24-My0077603	M24-My0077604
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	-	-	-	75
D3-N-MeFOSA (surr.)	1	%	-	-	-	111
D5-N-EtFOSA (surr.)	1	%	-	-	-	116
D7-N-MeFOSE (surr.)	1	%	-	-	-	94
D9-N-EtFOSE (surr.)	1	%	-	-	-	84
D5-N-EtFOSAA (surr.)	1	%	-	-	-	72
D3-N-MeFOSAA (surr.)	1	%	-	-	-	67
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	56
18O2-PFHxS (surr.)	1	%	-	-	-	78
13C8-PFOS (surr.)	1	%	-	-	-	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	39
13C2-6:2 FTSA (surr.)	1	%	-	-	-	82
13C2-8:2 FTSA (surr.)	1	%	-	-	-	66
13C2-10:2 FTSA (surr.)	1	%	-	-	-	83
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.8	9.1	10	-
Cyanide (total)	5	mg/kg	< 5	< 5	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	5.4	-
Cadmium	0.4	mg/kg	-	-	0.7	-
Chromium	5	mg/kg	-	-	18	-
Copper	5	mg/kg	-	-	18	-
Lead	5	mg/kg	-	-	69	-
Mercury	0.1	mg/kg	-	-	< 0.1	-
Nickel	5	mg/kg	-	-	12	-
Zinc	5	mg/kg	-	-	59	-

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Client Sample ID			BH82/2_03-0.5	BH84/2_0.4-0.6	BH85/3_0.7-1	BH93/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077600	M24-My0077602	M24-My0077603	M24-My0077604
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	< 1.25	-	-
Dibutyltin	1	mg/kg	< 1	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Monobutyltin	0.75	mg/kg	< 0.75	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	131	104	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-

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Client Sample ID			BH82/2_03-0.5	BH84/2_0.4-0.6	BH85/3_0.7-1	BH93/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077600	M24-My0077602	M24-My0077603	M24-My0077604
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	119	135	-	-
Toluene-d8 (surr.)	1	%	113	120	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	146	114	-	-
Tetrachloro-m-xylene (surr.)	1	%	101	147	-	-

eurofins | Environment Testing

Client Sample ID			BH82/2_03-0.5	BH84/2_0.4-0.6	BH85/3_0.7-1	BH93/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-My0077600	M24-My0077602	M24-My0077603	M24-My0077604
Date Sampled			May 23, 2024	May 23, 2024	May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	< 2	-	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-	-
Omethoate	2	mg/kg	< 2	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	92	119	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	146	114	-	-
Tetrachloro-m-xylene (surr.)	1	%	101	147	-	-

eurofins | Environment Testing

Client Sample ID			BH93/2_0.3-0.5	BH93/3_0.8-1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-My0077605	M24-My0077606
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Sample Properties				
% Moisture	1	%	8.7	29
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	82	-
p-Terphenyl-d14 (surr.)	1	%	111	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.5	-
Heavy Metals				
Arsenic	2	mg/kg	3.8	-
Cadmium	0.4	mg/kg	< 0.4	-
Chromium	5	mg/kg	6.8	-
Copper	5	mg/kg	9.2	-
Lead	5	mg/kg	22	-
Mercury	0.1	mg/kg	< 0.1	-
Nickel	5	mg/kg	< 5	-
Zinc	5	mg/kg	29	-
Actual Acidity (NLM-3.2)				
pH-KCL (NLM-3.1)	0.1	pH Units	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003
Potential Acidity - Titratable Peroxide				
pH-OX	0.1	pH Units	-	7.7
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02
Extractable Sulfur				
Sulfur - KCl Extractable	0.005	% S	-	0.35
Peroxide Extractable Sulfur	0.005	% S	-	0.39
HCl Extractable Sulfur	0.005	% S	-	N/A

eurofins | Environment Testing

Client Sample ID			BH93/2_0.3-0.5	BH93/3_0.8-1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-My0077605	M24-My0077606
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Potential Acidity (SPOS)				
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.047
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	29
Retained Acidity (S-NAS)				
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0
Extractable Calcium				
Calcium - KCl Extractable	0.005	% Ca	-	0.78
Calcium - Peroxide	0.005	% Ca	-	24
Calcium - Acid Reacted	0.005	% Ca	-	23
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	19
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	12000
Extractable Magnesium				
Magnesium - KCl Extractable	0.005	% Mg	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	0.36
Magnesium - Acid Reacted	0.005	% Mg	-	0.36
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.48
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	300
Acid Neutralising Capacity (ANCE)				
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	54
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	17
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	11000
Acid Neutralising Capacity (ANCbt)				
ANC Fineness Factor		factor	-	1.5
Net Acidity (Including ANC)				
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1
Extraneous Material				
<2mm Fraction	0.005	g	-	40
>2mm Fraction	0.005	g	-	< 0.005
Analysed Material	0.1	%	-	100
Extraneous Material	0.1	%	-	< 0.1
Volatile Organics				
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH93/2_0.3-0.5	BH93/3_0.8-1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-My0077605	M24-My0077606
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Volatile Organics				
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	108	-
Toluene-d8 (surr.)	1	%	99	-
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-

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Client Sample ID			BH93/2_0.3-0.5	BH93/3_0.8-1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-My0077605	M24-My0077606
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
a-HCH	0.05	mg/kg	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-
Dibutylchlorendate (surr.)	1	%	87	-
Tetrachloro-m-xylene (surr.)	1	%	137	-
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-
Coumaphos	2	mg/kg	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-
Naled	0.2	mg/kg	< 0.2	-

eurofins | Environment Testing

Client Sample ID			BH93/2_0.3-0.5	BH93/3_0.8-1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-My0077605	M24-My0077606
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Organophosphorus Pesticides				
Omethoate	2	mg/kg	< 2	-
Phorate	0.2	mg/kg	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-
Triphenylphosphate (surr.)	1	%	94	-
Polychlorinated Biphenyls				
Aroclor-1016	0.1	mg/kg	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-
Dibutylchlorendate (surr.)	1	%	87	-
Tetrachloro-m-xylene (surr.)	1	%	137	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture	Melbourne	May 29, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 28, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	May 29, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (total)	Melbourne	May 29, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Metals M8	Melbourne	May 29, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organotins	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Volatile Organics	Melbourne	May 29, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 05, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 05, 2024	6 Week
- Method: LTM-GEN-7050/7070			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101721
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2024 10:47 AM
Due: Jun 7, 2024
Priority: 10 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	BH73/1_0-0.2	May 23, 2024		Soil	M24-My0077591	X										X		X	
2	BH73/2_0.3_0.5	May 23, 2024		Soil	M24-My0077592				X	X		X				X	X		
3	BH73/3_0.7-1	May 23, 2024		Soil	M24-My0077593		X					X			X	X			X
4	BH74/3_0.8-1	May 23, 2024		Soil	M24-My0077594				X	X	X	X	X	X	X	X			
5	BH75/1_0-0.2	May 23, 2024		Soil	M24-My0077595	X										X		X	
6	BH75/2_0.3-0.5	May 23, 2024		Soil	M24-My0077596		X					X				X			X
7	BH75/3_0.8-1	May 23, 2024		Soil	M24-My0077597										X	X			
8	BH81/3_0.7-1	May 23, 2024		Soil	M24-My0077598		X		X			X		X	X	X			X
9	BH82/1_0-0.2	May 23, 2024		Soil	M24-My0077599	X													
10	BH82/2_03-0.5	May 23, 2024		Soil	M24-My0077600		X		X		X		X	X		X			X
11	BH84/1_0-0.2	May 23, 2024		Soil	M24-My0077601	X													

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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
12	BH84/2_0.4-0.6	May 23, 2024		Soil	M24-My0077602		X		X		X		X	X		X			X
13	BH85/3_0.7-1	May 23, 2024		Soil	M24-My0077603				X			X				X			
14	BH93/1_0-0.2	May 23, 2024		Soil	M24-My0077604	X										X		X	
15	BH93/2_0.3-0.5	May 23, 2024		Soil	M24-My0077605				X	X	X	X	X	X		X			
16	BH93/3_0.8-1	May 23, 2024		Soil	M24-My0077606										X	X			
17	RB03	May 23, 2024		Water	M24-My0077607							X					X	X	
18	FB02	May 23, 2024		Water	M24-My0077608													X	
19	BH74/1	May 23, 2024		Soil	M24-My0077609			X											
20	BH74/2	May 23, 2024		Soil	M24-My0077610			X											
21	BH79/1	May 23, 2024		Soil	M24-My0077611			X											
22	BH81/1	May 23, 2024		Soil	M24-My0077612			X											
23	BH81/2	May 23, 2024		Soil	M24-My0077613			X											
24	BH82/3	May 23, 2024		Soil	M24-My0077614			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X									X				
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
25	BH84/3	May 23, 2024		Soil	M24-My0077615			X											
26	BH85/1	May 23, 2024		Soil	M24-My0077616			X											
27	BH85/2	May 23, 2024		Soil	M24-My0077617			X											
28	DUP04	May 23, 2024		Soil	M24-My0077618			X											
29	SPLIT04	May 23, 2024		Soil	M24-My0077619			X											
Test Counts						5	5	11	7	3	4	8	4	5	5	14	2	5	5

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	93			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	106			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	106			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	98			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	103			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	100			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	88			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	99			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	105			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	71			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	100			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	107			70-130	Pass	
TRH C10-C14	%	88			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	86			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	108			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	109			70-130	Pass	
Acenaphthylene	%	101			70-130	Pass	
Anthracene	%	100			70-130	Pass	
Benz(a)anthracene	%	123			70-130	Pass	
Benzo(a)pyrene	%	85			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	
Benzo(g.h.i)perylene	%	71			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	95			70-130	Pass	
Dibenz(a.h)anthracene	%	94			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	96			70-130	Pass	
Pyrene	%	72			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	94			80-120	Pass	
Nickel	%	96			80-120	Pass	
Zinc	%	99			80-120	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	103			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	94			80-120	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	123			70-130	Pass	
1.2-Dichlorobenzene	%	106			70-130	Pass	
1.2-Dichloroethane	%	126			70-130	Pass	
Trichloroethene	%	118			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	79			70-130	Pass	
4.4'-DDD	%	104			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	%	73			70-130	Pass	
4.4'-DDT	%	115			70-130	Pass	
a-HCH	%	79			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-HCH	%	106			70-130	Pass	
d-HCH	%	73			70-130	Pass	
Dieldrin	%	72			70-130	Pass	
Endosulfan I	%	74			70-130	Pass	
Endosulfan II	%	75			70-130	Pass	
Endosulfan sulphate	%	116			70-130	Pass	
Endrin	%	84			70-130	Pass	
Endrin aldehyde	%	111			70-130	Pass	
Endrin ketone	%	93			70-130	Pass	
g-HCH (Lindane)	%	84			70-130	Pass	
Heptachlor	%	79			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	90			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	108			70-130	Pass	
Dimethoate	%	94			70-130	Pass	
Ethion	%	103			70-130	Pass	
Fenitrothion	%	90			70-130	Pass	
Methyl parathion	%	79			70-130	Pass	
Mevinphos	%	83			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	80			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	118			60-140	Pass	
Dibutyltin as Sn	%	113			60-140	Pass	
Monobutyltin as Sn	%	89			60-140	Pass	
LCS - % Recovery							
Cyanide (total)	%	108			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	98			60-140	Pass	
Dibutyltin as Sn	%	103			60-140	Pass	
Monobutyltin as Sn	%	97			60-140	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	102			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	93			80-120	Pass	
LCS - % Recovery							
Extractable Sulfur							
HCl Extractable Sulfur	%	102			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-My0076851	NCP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0076851	NCP	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0076851	NCP	%	99			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanoic acid (PFHpA)	M24-My0076851	NCP	%	100			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0076851	NCP	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-My0076851	NCP	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0076851	NCP	%	110			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0076851	NCP	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0076851	NCP	%	106			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0076851	NCP	%	96			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0076851	NCP	%	110			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-My0076851	NCP	%	112			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0076851	NCP	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0076851	NCP	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0076851	NCP	%	92			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0076851	NCP	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0076851	NCP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0076851	NCP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-My0076851	NCP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0076851	NCP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0076851	NCP	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0076851	NCP	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0076851	NCP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0076851	NCP	%	101			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0076851	NCP	%	94			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0076851	NCP	%	67			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0076851	NCP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0076851	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0076851	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0076851	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-My0077592	CP	%	102			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	M24-My0077592	CP	%	120			70-130	Pass	
TRH C6-C10	M24-My0079538	NCP	%	93			70-130	Pass	
TRH >C10-C16	M24-My0077592	CP	%	120			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-My0079538	NCP	%	86			70-130	Pass	
Toluene	M24-My0079538	NCP	%	81			70-130	Pass	
Ethylbenzene	M24-My0079538	NCP	%	79			70-130	Pass	
m&p-Xylenes	M24-My0079538	NCP	%	76			70-130	Pass	
o-Xylene	M24-My0079538	NCP	%	80			70-130	Pass	
Xylenes - Total*	M24-My0079538	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-My0079538	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-My0083380	NCP	%	91			70-130	Pass	
Acenaphthylene	M24-My0083380	NCP	%	73			70-130	Pass	
Anthracene	M24-My0083380	NCP	%	89			70-130	Pass	
Benz(a)anthracene	M24-My0083380	NCP	%	103			70-130	Pass	
Benzo(a)pyrene	M24-My0083380	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	M24-My0083380	NCP	%	105			70-130	Pass	
Benzo(g.h.i)perylene	M24-My0083380	NCP	%	88			70-130	Pass	
Benzo(k)fluoranthene	M24-My0083380	NCP	%	101			70-130	Pass	
Chrysene	M24-My0083380	NCP	%	109			70-130	Pass	
Dibenz(a.h)anthracene	M24-My0083380	NCP	%	80			70-130	Pass	
Fluoranthene	M24-My0083380	NCP	%	110			70-130	Pass	
Fluorene	M24-My0083380	NCP	%	80			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-My0083380	NCP	%	104			70-130	Pass	
Naphthalene	M24-My0083380	NCP	%	89			70-130	Pass	
Phenanthrene	M24-My0083380	NCP	%	74			70-130	Pass	
Pyrene	M24-My0083380	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-My0080904	NCP	%	79			75-125	Pass	
Cadmium	M24-My0080904	NCP	%	107			75-125	Pass	
Chromium	M24-My0079987	NCP	%	95			75-125	Pass	
Copper	M24-My0080904	NCP	%	83			75-125	Pass	
Lead	M24-My0080904	NCP	%	77			75-125	Pass	
Mercury	M24-My0080904	NCP	%	86			75-125	Pass	
Nickel	M24-My0076848	NCP	%	87			75-125	Pass	
Zinc	M24-My0080904	NCP	%	116			75-125	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M24-My0075569	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-My0077808	NCP	%	111			70-130	Pass	
1.2-Dichlorobenzene	M24-My0077808	NCP	%	111			70-130	Pass	
1.2-Dichloroethane	M24-My0077808	NCP	%	130			70-130	Pass	
Trichloroethene	M24-My0077808	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-My0071885	NCP	%	80			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	M24-My0071885	NCP	%	128			70-130	Pass	
4.4'-DDE	M24-My0071885	NCP	%	81			70-130	Pass	
4.4'-DDT	M24-My0071172	NCP	%	94			70-130	Pass	
a-HCH	M24-My0071885	NCP	%	80			70-130	Pass	
Aldrin	M24-My0071885	NCP	%	77			70-130	Pass	
b-HCH	M24-My0071885	NCP	%	105			70-130	Pass	
d-HCH	M24-My0071885	NCP	%	106			70-130	Pass	
Dieldrin	M24-My0071885	NCP	%	78			70-130	Pass	
Endosulfan I	M24-My0071885	NCP	%	87			70-130	Pass	
Endosulfan II	M24-My0071885	NCP	%	72			70-130	Pass	
Endosulfan sulphate	M24-My0071885	NCP	%	103			70-130	Pass	
Endrin	M24-My0071885	NCP	%	77			70-130	Pass	
Endrin aldehyde	M24-My0071885	NCP	%	77			70-130	Pass	
Endrin ketone	M24-My0071885	NCP	%	77			70-130	Pass	
g-HCH (Lindane)	M24-My0071885	NCP	%	118			70-130	Pass	
Heptachlor	M24-My0071885	NCP	%	80			70-130	Pass	
Heptachlor epoxide	M24-My0071885	NCP	%	74			70-130	Pass	
Hexachlorobenzene	M24-My0071885	NCP	%	79			70-130	Pass	
Methoxychlor	M24-My0071885	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-My0077472	NCP	%	101			70-130	Pass	
Ethion	M24-My0077472	NCP	%	77			70-130	Pass	
Fenitrothion	M24-My0077472	NCP	%	127			70-130	Pass	
Methyl parathion	M24-My0077472	NCP	%	99			70-130	Pass	
Mevinphos	M24-My0077472	NCP	%	122			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0077591	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0077591	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0077591	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0077591	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-My0091390	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-My0091390	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-My0091390	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-My0091390	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-My0091390	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-My0091390	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-My0077817	NCP	mg/kg	0.8	< 0.5	100	30%	Fail	Q15
Fluorene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Naphthalene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-My0077817	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-My0077817	NCP	mg/kg	0.6	< 0.5	110	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-My0082401	NCP	mg/kg	3.3	3.1	5.2	30%	Pass	
Cadmium	M24-My0082401	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-My0082401	NCP	mg/kg	42	37	12	30%	Pass	
Copper	M24-My0082401	NCP	mg/kg	13	11	13	30%	Pass	
Lead	M24-My0082401	NCP	mg/kg	17	15	10	30%	Pass	
Mercury	M24-My0082401	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-My0082401	NCP	mg/kg	24	21	13	30%	Pass	
Zinc	M24-My0082401	NCP	mg/kg	36	38	5.5	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M24-My0079531	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-My0081657	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-My0081657	NCP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-My0081657	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-My0081657	NCP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-My0081657	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-My0077593	CP	pH Units	9.7	9.7	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077593	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077593	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-My0077593	CP	pH Units	7.6	7.7	1.4	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-My0077593	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-My0077593	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-My0077593	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-My0077593	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-My0077593	CP	% S	0.24	0.25	1.3	30%	Pass	
Peroxide Extractable Sulfur	M24-My0077593	CP	% S	0.34	0.34	<1	20%	Pass	
HCl Extractable Sulfur	M24-My0077593	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-My0077593	CP	% S	0.098	0.094	4.6	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-My0077593	CP	mol H+/t	61	58	4.6	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-My0077593	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-My0077593	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	

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Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-My0077593	CP	% Ca	0.51	0.51	<1	30%	Pass	
Calcium - Peroxide	M24-My0077593	CP	% Ca	15	16	5.3	20%	Pass	
Calcium - Acid Reacted	M24-My0077593	CP	% Ca	14	15	5.5	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-My0077593	CP	% S	12	12	5.5	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-My0077593	CP	mol H+/t	7200	7600	5.5	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-My0077593	CP	% Mg	0.013	0.013	<1	30%	Pass	
Magnesium - Peroxide	M24-My0077593	CP	% Mg	0.34	0.35	3.5	20%	Pass	
Magnesium - Acid Reacted	M24-My0077593	CP	% Mg	0.33	0.34	3.7	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-My0077593	CP	% S	0.43	0.45	3.7	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-My0077593	CP	mol H+/t	270	280	3.7	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-My0077593	CP	% CaCO3	34	36	6.2	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-My0077593	CP	mol H+/t	6800	7300	6.2	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-My0077593	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-My0077593	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-My0077593	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-My0077593	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-My0077594	CP	pH Units	7.9	8.1	pass	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-My0078619	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-My0078619	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-My0078619	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-My0078619	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-My0078619	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-My0078619	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-My0078619	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-My0077597	CP	%	18	17	5.2	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-My0077598	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-My0077598	CP	mg/kg	< 20	< 20	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-My0077598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-My0077598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-My0077598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-My0077598	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-My0077598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-My0077598	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
trans-1.3-Dichloropropene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-My0077598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-My0077606	CP	pH Units	11	11	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077606	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-My0077606	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-My0077606	CP	pH Units	7.7	8.0	3.7	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-My0077606	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-My0077606	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-My0077606	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-My0077606	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-My0077606	CP	% S	0.35	0.35	<1	30%	Pass	
Peroxide Extractable Sulfur	M24-My0077606	CP	% S	0.39	0.39	<1	20%	Pass	
HCl Extractable Sulfur	M24-My0077606	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-My0077606	CP	% S	0.047	0.044	7.1	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-My0077606	CP	mol H+/t	29	27	7.1	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-My0077606	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-My0077606	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-My0077606	CP	% Ca	0.78	0.79	1.4	30%	Pass	
Calcium - Peroxide	M24-My0077606	CP	% Ca	24	24	1.1	20%	Pass	
Calcium - Acid Reacted	M24-My0077606	CP	% Ca	23	23	1.1	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-My0077606	CP	% S	19	19	1.1	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-My0077606	CP	mol H+/t	12000	12000	1.1	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-My0077606	CP	% Mg	< 0.005	< 0.005	<1	30%	Pass	
Magnesium - Peroxide	M24-My0077606	CP	% Mg	0.36	0.35	1.9	20%	Pass	
Magnesium - Acid Reacted	M24-My0077606	CP	% Mg	0.36	0.35	1.9	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-My0077606	CP	% S	0.48	0.47	1.9	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-My0077606	CP	mol H+/t	300	290	1.9	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-My0077606	CP	% CaCO3	54	53	<1	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-My0077606	CP	mol H+/t	11000	11000	<1	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-My0077606	CP	factor	1.5	1.5	<1	30%	Pass	

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Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-My0077606	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-My0077606	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-My0077606	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	

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Comments

This report has been revised (V2) to correct sample names for all samples to include sample depths, per COC.

This report has been revised (V3) to correct holding times to reflect true extraction dates.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jack Ayers**

Report **1101721-W-V3**
Project name OSBORNE EIS
Project ID 67064
Received Date May 24, 2024

Client Sample ID			**RB03**	**FB02**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M24-My0077607**	**M24-My0077608**
Date Sampled			**May 23, 2024**	**May 23, 2024**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB03	FB02
Sample Matrix			Water	Water
Eurofins Sample No.			M24-My0077607	M24-My0077608
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	84	84
13C5-PFPeA (surr.)	1	%	102	103
13C5-PFHxA (surr.)	1	%	103	103
13C4-PFHpA (surr.)	1	%	107	106
13C8-PFOA (surr.)	1	%	134	129
13C5-PFNA (surr.)	1	%	102	90
13C6-PFDA (surr.)	1	%	100	82
13C2-PFUnDA (surr.)	1	%	87	62
13C2-PFDoDA (surr.)	1	%	64	48
13C2-PFTeDA (surr.)	1	%	24	25
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	116	110
D3-N-MeFOSA (surr.)	1	%	101	113
D5-N-EtFOSA (surr.)	1	%	110	119
D7-N-MeFOSE (surr.)	1	%	77	68
D9-N-EtFOSE (surr.)	1	%	78	69
D5-N-EtFOSAA (surr.)	1	%	93	71
D3-N-MeFOSAA (surr.)	1	%	110	86
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB03	FB02
Sample Matrix			Water	Water
Eurofins Sample No.			M24-My0077607	M24-My0077608
Date Sampled			May 23, 2024	May 23, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	105	106
18O2-PFHxS (surr.)	1	%	94	92
13C8-PFOS (surr.)	1	%	100	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	57	54
13C2-6:2 FTSA (surr.)	1	%	62	59
13C2-8:2 FTSA (surr.)	1	%	119	105
13C2-10:2 FTSA (surr.)	1	%	85	53
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	May 29, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	May 29, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	May 29, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	May 29, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 29, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 28, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1101721
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 24, 2024 10:47 AM
Due: Jun 7, 2024
Priority: 10 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	BH73/1_0-0.2	May 23, 2024		Soil	M24-My0077591	X										X		X	
2	BH73/2_0.3_0.5	May 23, 2024		Soil	M24-My0077592				X	X		X				X	X		
3	BH73/3_0.7-1	May 23, 2024		Soil	M24-My0077593		X					X			X	X			X
4	BH74/3_0.8-1	May 23, 2024		Soil	M24-My0077594				X	X	X	X	X	X	X	X			
5	BH75/1_0-0.2	May 23, 2024		Soil	M24-My0077595	X										X		X	
6	BH75/2_0.3-0.5	May 23, 2024		Soil	M24-My0077596		X					X				X			X
7	BH75/3_0.8-1	May 23, 2024		Soil	M24-My0077597										X	X			
8	BH81/3_0.7-1	May 23, 2024		Soil	M24-My0077598		X		X			X		X	X	X			X
9	BH82/1_0-0.2	May 23, 2024		Soil	M24-My0077599	X													
10	BH82/2_03-0.5	May 23, 2024		Soil	M24-My0077600		X		X		X		X	X		X			X
11	BH84/1_0-0.2	May 23, 2024		Soil	M24-My0077601	X													

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X													
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
12	BH84/2_0.4-0.6	May 23, 2024		Soil	M24-My0077602		X		X		X		X	X		X			X
13	BH85/3_0.7-1	May 23, 2024		Soil	M24-My0077603				X			X				X			
14	BH93/1_0-0.2	May 23, 2024		Soil	M24-My0077604	X										X		X	
15	BH93/2_0.3-0.5	May 23, 2024		Soil	M24-My0077605				X	X	X	X	X	X		X			
16	BH93/3_0.8-1	May 23, 2024		Soil	M24-My0077606										X	X			
17	RB03	May 23, 2024		Water	M24-My0077607							X					X	X	
18	FB02	May 23, 2024		Water	M24-My0077608													X	
19	BH74/1	May 23, 2024		Soil	M24-My0077609			X											
20	BH74/2	May 23, 2024		Soil	M24-My0077610			X											
21	BH79/1	May 23, 2024		Soil	M24-My0077611			X											
22	BH81/1	May 23, 2024		Soil	M24-My0077612			X											
23	BH81/2	May 23, 2024		Soil	M24-My0077613			X											
24	BH82/3	May 23, 2024		Soil	M24-My0077614			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X		X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X									X				
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X				
25	BH84/3	May 23, 2024		Soil	M24-My0077615			X											
26	BH85/1	May 23, 2024		Soil	M24-My0077616			X											
27	BH85/2	May 23, 2024		Soil	M24-My0077617			X											
28	DUP04	May 23, 2024		Soil	M24-My0077618			X											
29	SPLIT04	May 23, 2024		Soil	M24-My0077619			X											
Test Counts						5	5	11	7	3	4	8	4	5	5	14	2	5	5

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	107			70-130	Pass	
TRH C10-C14	%	85			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	105			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	99			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	101			80-120	Pass	
Copper	%	100			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	103			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	90			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	86			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	85			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	84			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	96			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	%	94			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	72			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	103			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	80			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	80			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	95			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	64			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	106			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-My0071121	NCP	%	105			70-130	Pass	
TRH >C10-C16	M24-My0071121	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-My0077607	CP	%	95			75-125	Pass	
Cadmium	M24-My0077607	CP	%	96			75-125	Pass	
Chromium	M24-My0077607	CP	%	97			75-125	Pass	
Copper	M24-My0077607	CP	%	98			75-125	Pass	
Lead	M24-My0077607	CP	%	95			75-125	Pass	
Mercury	M24-My0085423	NCP	%	91			75-125	Pass	
Nickel	M24-My0077607	CP	%	97			75-125	Pass	
Zinc	M24-My0077607	CP	%	99			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-My0060934	NCP	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0060934	NCP	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0060934	NCP	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0060934	NCP	%	97			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0060934	NCP	%	100			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-My0060934	NCP	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0060934	NCP	%	103			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	M24-My0060934	NCP	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0060934	NCP	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0060934	NCP	%	80			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0060934	NCP	%	103			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-My0076468	NCP	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0076468	NCP	%	74			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0076468	NCP	%	87			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0076468	NCP	%	87			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0076468	NCP	%	99			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0076468	NCP	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0076468	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-My0076468	NCP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0076468	NCP	%	87			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0076468	NCP	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0076468	NCP	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0076468	NCP	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0076468	NCP	%	119			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0076468	NCP	%	109			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0076468	NCP	%	52			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0076468	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0076468	NCP	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0076468	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0076468	NCP	%	103			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-My0060938	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M24-My0078463	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M24-My0078463	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C29-C36	M24-My0078463	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-My0060938	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-My0078463	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M24-My0078463	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-My0078463	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-My0060938	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-My0060938	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-My0060938	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-My0060938	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-My0077607	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M24-My0077607	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-My0077607	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-My0077607	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M24-My0077607	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-My0085423	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-My0077607	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M24-My0077607	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-My0071119	NCP	ug/L	0.38	0.36	5.8	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-My0071119	NCP	ug/L	0.75	0.72	4.7	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-My0060933	NCP	ug/L	0.07	0.07	1.9	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-My0071119	NCP	ug/L	0.30	0.29	3.1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-My0071119	NCP	ug/L	0.65	0.64	1.7	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-My0071119	NCP	ug/L	0.05	0.05	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-My0071119	NCP	ug/L	0.08	0.08	1.3	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-My0071119	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-My0071119	NCP	ug/L	0.51	0.48	5.3	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-My0060933	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-My0071119	NCP	ug/L	0.25	0.24	5.4	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-My0071119	NCP	ug/L	0.87	0.84	3.5	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-My0060933	NCP	ug/L	0.04	0.04	3.7	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-My0060933	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-My0060933	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-My0060933	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-My0071119	NCP	ug/L	0.45	0.46	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-My0071119	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Amy Meunier	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5930	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		
NAME: Jack Ayers	DATE: 29/5/24	NAME:	DATE:	METHOD OF SHIPMENT: Overnight
OF: JBS&G (Australia) Pty Ltd	TIME:	OF:	TIME:	CONSIGNMENT NOTE NO.
NAME:	DATE:	NAME:	DATE:	
OF:	TIME:	OF:	TIME:	TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au
ajames@jbsg.com.au

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	NOTES
BH37/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X							X								
BH37/2	0.2	0.4	Soil	29/05/2024		1 Jar	1								X										
BH37/3	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH38/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH38/2	0.4	0.6	Soil	29/05/2024		1 Jar	1																X		
BH38/3	0.8	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2					X	X		X		X				X				
BH39/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X																
BH39/2	0.4	0.6	Soil	29/05/2024		1 Jar	1										X								
BH39/3	0.6	0.8	Soil	29/05/2024		1 Jar	1					X						X		X	X	X	X		
BH39/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH40/1	0	0.3	Soil	29/05/2024		1 Jar, 1 Asbestos bag	2							X											
BH40/2	0.3	0.5	Soil	29/05/2024		1 Jar	1										X								
BH40/3	0.6	0.8	Soil	29/05/2024		1 Jar	1																		
BH40/4	0.8	1	Soil	29/05/2024		1 Jar	1																X		
BH41/1	0	0.2	Soil	29/05/2024		1 Jar	1								X										
BH41/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH41/3	0.7	0.8	Soil	29/05/2024		1 Jar	1																		
BH41/4	0.8	1	Soil	29/05/2024		1 Jar	2											X		X			X		
BH42/1	0	0.3	Soil	29/05/2024		1 Jar, 1 Asbestos bag	1							X											
BH42/2	0.3	0.6	Soil	29/05/2024		1 Jar	1																X		
BH42/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH42/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH43/1	0	0.2	Soil	29/05/2024		1 Jar, 1 Asbestos bag	2							X									X		
BH43/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH43/3	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH44/1	0	0.1	Soil	29/05/2024		1 Jar	1															X	X		
BH44/2	0.5	0.7	Soil	29/05/2024		1 Jar	1					X									X				
BH44/3	0.7	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X										
BH45/1	0	0.2	Soil	29/05/2024		1 Jar	1			X							X								
BH45/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH45/3	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH47/1	0	0.1	Soil	29/05/2024		1 Jar	1																		
BH47/2	0.2	0.4	Soil	29/05/2024		1 Jar	1											X		X		X	X		
BH47/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH47/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH48/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH48/2	0.4	0.6	Soil	29/05/2024		1 Jar	1																X		
BH48/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH48/4	0.8	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X										
BH49/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH49/2	0.2	0.4	Soil	29/05/2024		1 Jar	1																		
BH49/3	0.7	0.9	Soil	29/05/2024		1 Jar	1																		
BH49/4	0.9	1	Soil	29/05/2024		1 Jar	1																		
BH83/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH83/2	0.2	0.4	Soil	29/05/2024		1 Jar	1																		
BH83/3	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH83/4	0.7	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X		X		X						
DUP05	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2																		
DUP06	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X							X								
SPLIT05	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT06	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X							X								
RB04	-	-	Water	29/05/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
TB04	-	-	Water	29/05/2024		1 PFAS	1		X																
							TOTAL		7	4	0	3	4	3	6	0	12	3	1	3	3	3	9	1	

1

Catherine
EF
30/5 1.56 pm

1104324

FW: Completed COC for soil samples collected 29th May (Osborne 67064)

Amy Meunier <Amy.Meunier@eurofinsanz.com>
Thu 30/5/24 2:38 PM
To:#AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>
Cc:Parimal Acharya <ParimalAcharya@eurofins.com>

1 attachments (51 KB)
Batch 3_COC 5930_Eurofins.xlsx;

Verified Sender: This email is from an internal and/or verified domain which passed security verifications. Remember to still be cautious with personal data and follow company policies.

Hi Jess – COC attached

Parimal – are these in SA?

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)
If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Thursday, May 30, 2024 1:56 PM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Cc: Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected 29th May (Osborne 67064)
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy,

Please find attached completed COC for soil samples collected yesterday (Wednesday, 29th May) for Osborne. Please ensure samples are extracted / analysed within holding time.

Please note Split06 is to be sent to Envirolab with a copy of this COC.

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G

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www.eurofins.com.au EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (SA) P/L
Contact name:	Kate Lough
Project name:	OSBOURNE EIS
Project ID:	67064
Turnaround time:	5 Day
Date/Time received	May 30, 2024 1:56 PM
Eurofins reference	1104324

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

Attention:	Kate Lough
Report	1104324-AID-V2
Project Name	OSBORNE EIS
Project ID	67064
Received Date	May 30, 2024
Date Reported	Jun 26, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name OSBORNE EIS
Project ID 67064
Date Sampled May 29, 2024
Report 1104324-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH40/1_0-0.3	24-Jn0007030	May 29, 2024	Approximate Sample 670g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris, wood chips, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH42/1_0-0.3	24-Jn0007035	May 29, 2024	Approximate Sample 650g Sample consisted of: Brown coarse-grained clayey sandy soil, wood chips, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH43/1_0-0.2	24-Jn0007038	May 29, 2024	Approximate Sample 859g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, wood chips, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 04, 2024	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2370

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1104324
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2024 1:56 PM
Due: Jun 7, 2024
Priority: 6 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	BH37/1_0-0.2	May 29, 2024		Soil	M24-Jn0007023						X		X				X			X	
2	BH37/2_0.2-0.4	May 29, 2024		Soil	M24-Jn0007024				X								X				
3	BH38/2_0.4-06	May 29, 2024		Soil	M24-Jn0007025												X	X			
4	BH38/3_0.8-1	May 29, 2024		Soil	M24-Jn0007026		X		X				X			X	X				X
5	BH39/1_0-0.2	May 29, 2024		Soil	M24-Jn0007027												X			X	
6	BH39/2_0.4-0.6	May 29, 2024		Soil	M24-Jn0007028								X				X				
7	BH39/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007029		X					X		X	X		X	X			X
8	BH40/1_0-0.3	May 29, 2024		Soil	M24-Jn0007030	X															
9	BH40/2_0.3-0.5	May 29, 2024		Soil	M24-Jn0007031								X				X				

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email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Received: May 30, 2024 1:56 PM
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
10	BH40/4_0.8-1	May 29, 2024		Soil	M24-Jn0007032												X	X			
11	BH41/1_0-0.2	May 29, 2024		Soil	M24-Jn0007033				X								X				
12	BH41/4_0.8-1	May 29, 2024		Soil	M24-Jn0007034							X			X		X	X			
13	BH42/1_0-0.3	May 29, 2024		Soil	M24-Jn0007035	X															
14	BH42/2_0.3-0.6	May 29, 2024		Soil	M24-Jn0007036												X	X			
15	BH42/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007037								X				X				
16	BH43/1_0-0.2	May 29, 2024		Soil	M24-Jn0007038	X											X	X			
17	BH44/1_0-0.1	May 29, 2024		Soil	M24-Jn0007039									X			X	X			
18	BH44/2_0.5-0.7	May 29, 2024		Soil	M24-Jn0007040		X										X				X
19	BH44/3_0.7-1	May 29, 2024		Soil	M24-Jn0007041				X							X	X				
20	BH45/1_0-0.2	May 29, 2024		Soil	M24-Jn0007042						X		X				X				
21	BH47/2_0.2-0.4	May 29, 2024		Soil	M24-Jn0007043							X		X	X		X	X			

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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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NATA# 2561
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1104324
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2024 1:56 PM
Due: Jun 7, 2024
Priority: 6 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
22	BH47/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007044								X				X				
23	BH48/2_0.4-0.6	May 29, 2024		Soil	M24-Jn0007045												X	X			
24	BH48/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007046								X				X				
25	BH48/4_0.8-1	May 29, 2024		Soil	M24-Jn0007047				X							X	X				
26	BH49/1_0-0.2	May 29, 2024		Soil	M24-Jn0007048								X				X			X	
27	BH83/4_0.7-1	May 29, 2024		Soil	M24-Jn0007049				X	X			X			X	X				
28	DUP06	May 29, 2024		Soil	M24-Jn0007050						X		X				X			X	
29	RB04	May 29, 2024		Water	M24-Jn0007051														X	X	
30	TB04	May 29, 2024		Water	M24-Jn0007052															X	
31	BH37/3	May 29, 2024		Soil	M24-Jn0007053			X													
32	BH38/1	May 29, 2024		Soil	M24-Jn0007054			X													
33	BH39/4	May 29, 2024		Soil	M24-Jn0007055			X													
34	BH40/3	May 29, 2024		Soil	M24-Jn0007056			X													

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ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1104324
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2024 1:56 PM
Due: Jun 7, 2024
Priority: 6 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
35	BH41/2	May 29, 2024		Soil	M24-Jn0007057			X													
36	BH41/3	May 29, 2024		Soil	M24-Jn0007058			X													
37	BH42/4	May 29, 2024		Soil	M24-Jn0007059			X													
38	BH43/2	May 29, 2024		Soil	M24-Jn0007060			X													
39	BH43/3	May 29, 2024		Soil	M24-Jn0007061			X													
40	BH45/2	May 29, 2024		Soil	M24-Jn0007062			X													
41	BH45/3	May 29, 2024		Soil	M24-Jn0007063			X													
42	BH47/1	May 29, 2024		Soil	M24-Jn0007064			X													
43	BH47/4	May 29, 2024		Soil	M24-Jn0007065			X													
44	BH48/1	May 29, 2024		Soil	M24-Jn0007066			X													
45	BH49/2	May 29, 2024		Soil	M24-Jn0007067			X													
46	BH49/3	May 29, 2024		Soil	M24-Jn0007068			X													
47	BH49/4	May 29, 2024		Soil	M24-Jn0007069			X													
48	BH83/1	May 29, 2024		Soil	M24-Jn0007070			X													
49	BH83/2	May 29, 2024		Soil	M24-Jn0007071			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
50	BH83/3	May 29, 2024		Soil	M24-Jn0007072			X													
51	DUP05	May 29, 2024		Soil	M24-Jn0007073			X													
52	SPLIT05	May 29, 2024		Soil	M24-Jn0007076			X													
Test Counts						3	3	22	6	1	3	3	11	3	3	4	26	9	1	6	3

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_X}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

This report has been revised V2 to correct sample names to include sample depths. Per COC.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1104324-S-V2**
Project name OSBORNE EIS
Project ID 67064
Received Date May 30, 2024

Client Sample ID			**BH37/1_0-0.2**	**BH37/2_0.2-0.4**	**BH38/2_0.4-06**	**BH38/3_0.8-1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M24-Jn0007023**	**M24-Jn0007024**	**M24-Jn0007025**	**M24-Jn0007026**
Date Sampled			**May 29, 2024**	**May 29, 2024**	**May 29, 2024**	**May 29, 2024**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	125	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	95	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	2.1	-	3.0	5.4
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	1.7
Chromium	5	mg/kg	< 5	-	30	12
Copper	5	mg/kg	13	-	15	27
Lead	5	mg/kg	8.9	-	9.7	190
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	14	< 5
Zinc	5	mg/kg	27	-	28	260

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Client Sample ID			BH37/1_0-0.2	BH37/2_0.2-0.4	BH38/2_0.4-06	BH38/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007023	M24-Jn0007024	M24-Jn0007025	M24-Jn0007026
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	8.0	20	15	16
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	78	-	-	-
13C5-PFPeA (surr.)	1	%	98	-	-	-
13C5-PFHxA (surr.)	1	%	113	-	-	-
13C4-PFHpA (surr.)	1	%	118	-	-	-
13C8-PFOA (surr.)	1	%	110	-	-	-
13C5-PFNA (surr.)	1	%	100	-	-	-
13C6-PFDA (surr.)	1	%	93	-	-	-
13C2-PFUnDA (surr.)	1	%	91	-	-	-
13C2-PFDoDA (surr.)	1	%	100	-	-	-
13C2-PFTeDA (surr.)	1	%	74	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	79	-	-	-
D3-N-MeFOSA (surr.)	1	%	88	-	-	-
D5-N-EtFOSA (surr.)	1	%	91	-	-	-
D7-N-MeFOSE (surr.)	1	%	68	-	-	-
D9-N-EtFOSE (surr.)	1	%	86	-	-	-
D5-N-EtFOSAA (surr.)	1	%	96	-	-	-
D3-N-MeFOSAA (surr.)	1	%	80	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-

eurofins | Environment Testing

Client Sample ID			BH37/1_0-0.2	BH37/2_0.2-0.4	BH38/2_0.4-06	BH38/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007023	M24-Jn0007024	M24-Jn0007025	M24-Jn0007026
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	102	-	-	-
18O2-PFHxS (surr.)	1	%	90	-	-	-
13C8-PFOS (surr.)	1	%	82	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	165	-	-	-
13C2-6:2 FTSA (surr.)	1	%	185	-	-	-
13C2-8:2 FTSA (surr.)	1	%	90	-	-	-
13C2-10:2 FTSA (surr.)	1	%	111	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	9.4	-	9.7
Cyanide (total)	5	mg/kg	-	-	-	< 5
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	60	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-

eurofins | Environment Testing

Client Sample ID			BH37/1_0-0.2	BH37/2_0.2-0.4	BH38/2_0.4-06	BH38/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007023	M24-Jn0007024	M24-Jn0007025	M24-Jn0007026
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	89	-
p-Terphenyl-d14 (surr.)	1	%	-	-	142	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	106
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	10
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.9
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.020
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.064
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.044
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	28

eurofins | Environment Testing

Client Sample ID			BH37/1_0-0.2	BH37/2_0.2-0.4	BH38/2_0.4-06	BH38/3_0.8-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007023	M24-Jn0007024	M24-Jn0007025	M24-Jn0007026
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.26
Calcium - Peroxide	0.005	% Ca	-	-	-	6.2
Calcium - Acid Reacted	0.005	% Ca	-	-	-	5.9
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	4.7
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	3000
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.007
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.13
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.13
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.17
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	100
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	15
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	4.8
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	3000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	250
>2mm Fraction	0.005	g	-	-	-	93
Analysed Material	0.1	%	-	-	-	73
Extraneous Material	0.1	%	-	-	-	27

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	113	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-
Heavy Metals						
Arsenic	2	mg/kg	-	4.4	3.8	2.4
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	10	11	< 5
Copper	5	mg/kg	-	10	8.5	7.5
Lead	5	mg/kg	-	16	14	< 5
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	5.8	5.5	5.5
Zinc	5	mg/kg	-	31	20	8.9
Sample Properties						
% Moisture	1	%	18	20	17	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	90	-	-	-
13C5-PFPeA (surr.)	1	%	99	-	-	-
13C5-PFHxA (surr.)	1	%	109	-	-	-
13C4-PFHpA (surr.)	1	%	97	-	-	-
13C8-PFOA (surr.)	1	%	101	-	-	-
13C5-PFNA (surr.)	1	%	98	-	-	-
13C6-PFDA (surr.)	1	%	110	-	-	-
13C2-PFUnDA (surr.)	1	%	94	-	-	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	96	-	-	-
13C2-PFTeDA (surr.)	1	%	94	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	82	-	-	-
D3-N-MeFOSA (surr.)	1	%	85	-	-	-
D5-N-EtFOSA (surr.)	1	%	103	-	-	-
D7-N-MeFOSE (surr.)	1	%	89	-	-	-
D9-N-EtFOSE (surr.)	1	%	91	-	-	-
D5-N-EtFOSAA (surr.)	1	%	90	-	-	-
D3-N-MeFOSAA (surr.)	1	%	104	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	97	-	-	-
18O2-PFHxS (surr.)	1	%	90	-	-	-
13C8-PFOS (surr.)	1	%	81	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	101	-	-	-
13C2-6:2 FTSA (surr.)	1	%	83	-	-	-
13C2-8:2 FTSA (surr.)	1	%	108	-	-	-
13C2-10:2 FTSA (surr.)	1	%	99	-	-	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	62	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	106	-
p-Terphenyl-d14 (surr.)	1	%	-	-	127	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	117	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	62	-
Toluene-d8 (surr.)	1	%	-	-	52	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-

eurofins | Environment Testing

Client Sample ID			BH39/1_0-0.2	BH39/2_0.4-0.6	BH39/3_0.6-0.8	BH40/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007027	M24-Jn0007028	M24-Jn0007029	M24-Jn0007031
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	89	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	113	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	-

Client Sample ID			BH40/4_0.8-1	BH41/1_0-0.2	BH41/4_0.8-1	BH42/2_0.3-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007032	M24-Jn0007033	M24-Jn0007034	M24-Jn0007036
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	13	-	11	9.5
Cadmium	0.4	mg/kg	0.5	-	0.5	< 0.4
Chromium	5	mg/kg	38	-	31	25
Copper	5	mg/kg	38	-	28	33
Lead	5	mg/kg	51	-	47	44
Mercury	0.1	mg/kg	0.4	-	0.4	0.1
Nickel	5	mg/kg	19	-	16	14
Zinc	5	mg/kg	99	-	79	75
Sample Properties						
% Moisture	1	%	29	9.5	26	18
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	7.7	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

eurofins | Environment Testing

Client Sample ID			BH40/4_0.8-1	BH41/1_0-0.2	BH41/4_0.8-1	BH42/2_0.3-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007032	M24-Jn0007033	M24-Jn0007034	M24-Jn0007036
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	-	67	57
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	59	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	59	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	-	93	59
p-Terphenyl-d14 (surr.)	1	%	77	-	91	122
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH40/4_0.8-1	BH41/1_0-0.2	BH41/4_0.8-1	BH42/2_0.3-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007032	M24-Jn0007033	M24-Jn0007034	M24-Jn0007036
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			BH40/4_0.8-1	BH41/1_0-0.2	BH41/4_0.8-1	BH42/2_0.3-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007032	M24-Jn0007033	M24-Jn0007034	M24-Jn0007036
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	-	67	-
Toluene-d8 (surr.)	1	%	-	-	95	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	89	-

Client Sample ID			BH42/3_0.6-0.8	BH43/1_0-0.2	BH44/1_0-0.1	BH44/2_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007037	M24-Jn0007038	M24-Jn0007039	M24-Jn0007040
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-

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Client Sample ID			BH42/3_0.6-0.8	BH43/1_0-0.2	BH44/1_0-0.1	BH44/2_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007037	M24-Jn0007038	M24-Jn0007039	M24-Jn0007040
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	15	4.9	2.6	-
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	40	18	8.3	-
Copper	5	mg/kg	46	13	5.6	-
Lead	5	mg/kg	44	13	9.3	-
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	-
Nickel	5	mg/kg	21	9.1	< 5	-
Zinc	5	mg/kg	110	25	22	-
Sample Properties						
% Moisture	1	%	28	6.8	7.4	14
Cyanide (total)	5	mg/kg	-	-	-	< 5
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	57	135	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-

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Client Sample ID			BH42/3_0.6-0.8	BH43/1_0-0.2	BH44/1_0-0.1	BH44/2_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007037	M24-Jn0007038	M24-Jn0007039	M24-Jn0007040
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	87	116	-
p-Terphenyl-d14 (surr.)	1	%	-	113	121	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	124
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-

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Client Sample ID			BH42/3_0.6-0.8	BH43/1_0-0.2	BH44/1_0-0.1	BH44/2_0.5-0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007037	M24-Jn0007038	M24-Jn0007039	M24-Jn0007040
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	99	-

Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	111	69	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	104	-
Heavy Metals						
Arsenic	2	mg/kg	-	4.6	< 2	5.8
Cadmium	0.4	mg/kg	-	13	< 0.4	< 0.4
Chromium	5	mg/kg	-	12	9.6	6.0
Copper	5	mg/kg	-	4800	14	13
Lead	5	mg/kg	-	31	< 5	9.1
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1

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Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	-	7.0	8.4	9.0
Zinc	5	mg/kg	-	190	< 5	17
Sample Properties						
% Moisture	1	%	19	7.1	26	34
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.0	-	-	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	125	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	97	-
p-Terphenyl-d14 (surr.)	1	%	-	-	108	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.2	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	7.6	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.53	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.87	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.34	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	210	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.60	-	-	-
Calcium - Peroxide	0.005	% Ca	15	-	-	-
Calcium - Acid Reacted	0.005	% Ca	14	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	12	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	7200	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.13	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.74	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.61	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.80	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	500	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	34	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	11	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	6700	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-

eurofins | Environment Testing

Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	-	-	-
>2mm Fraction	0.005	g	41	-	-	-
Analysed Material	0.1	%	78	-	-	-
Extraneous Material	0.1	%	22	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-

eurofins | Environment Testing

Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	125	-
Toluene-d8 (surr.)	1	%	-	-	117	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	73	-

eurofins | Environment Testing

Client Sample ID			BH44/3_0.7-1	BH45/1_0-0.2	BH47/2_0.2-0.4	BH47/3_0.6-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007041	M24-Jn0007042	M24-Jn0007043	M24-Jn0007044
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	69	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	104	-

Client Sample ID			BH48/2_0.4-0.6	BH48/3_0.6-0.8	BH48/4_0.8-1	BH49/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007045	M24-Jn0007046	M24-Jn0007047	M24-Jn0007048
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	9.5	-	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	34	33	-	8.3
Copper	5	mg/kg	29	34	-	16
Lead	5	mg/kg	41	42	-	44
Mercury	0.1	mg/kg	0.3	0.3	-	< 0.1
Nickel	5	mg/kg	17	16	-	6.4
Zinc	5	mg/kg	70	84	-	37
Sample Properties						
% Moisture	1	%	22	25	25	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	85
13C5-PFPeA (surr.)	1	%	-	-	-	103
13C5-PFHxA (surr.)	1	%	-	-	-	109
13C4-PFHpA (surr.)	1	%	-	-	-	103
13C8-PFOA (surr.)	1	%	-	-	-	94
13C5-PFNA (surr.)	1	%	-	-	-	99
13C6-PFDA (surr.)	1	%	-	-	-	104
13C2-PFUnDA (surr.)	1	%	-	-	-	98

eurofins | Environment Testing

Client Sample ID			BH48/2_0.4-0.6	BH48/3_0.6-0.8	BH48/4_0.8-1	BH49/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007045	M24-Jn0007046	M24-Jn0007047	M24-Jn0007048
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	-	-	-	100
13C2-PFTeDA (surr.)	1	%	-	-	-	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	85
D3-N-MeFOSA (surr.)	1	%	-	-	-	94
D5-N-EtFOSA (surr.)	1	%	-	-	-	103
D7-N-MeFOSE (surr.)	1	%	-	-	-	99
D9-N-EtFOSE (surr.)	1	%	-	-	-	79
D5-N-EtFOSAA (surr.)	1	%	-	-	-	95
D3-N-MeFOSAA (surr.)	1	%	-	-	-	95
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	100
18O2-PFHxS (surr.)	1	%	-	-	-	87
13C8-PFOS (surr.)	1	%	-	-	-	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	107
13C2-6:2 FTSA (surr.)	1	%	-	-	-	87
13C2-8:2 FTSA (surr.)	1	%	-	-	-	107
13C2-10:2 FTSA (surr.)	1	%	-	-	-	112

eurofins | Environment Testing

Client Sample ID			BH48/2_0.4-0.6	BH48/3_0.6-0.8	BH48/4_0.8-1	BH49/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007045	M24-Jn0007046	M24-Jn0007047	M24-Jn0007048
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.2	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	50	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-

eurofins | Environment Testing

Client Sample ID			BH48/2_0.4-0.6	BH48/3_0.6-0.8	BH48/4_0.8-1	BH49/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007045	M24-Jn0007046	M24-Jn0007047	M24-Jn0007048
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	98	-	-	-
p-Terphenyl-d14 (surr.)	1	%	141	-	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.0	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.1	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.29	-
Peroxide Extractable Sulfur	0.005	% S	-	-	1.2	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.94	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	590	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.43	-
Calcium - Peroxide	0.005	% Ca	-	-	15	-
Calcium - Acid Reacted	0.005	% Ca	-	-	15	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	12	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	7400	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.16	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.95	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.79	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	1.0	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	650	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	34	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	11	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	6700	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-

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Client Sample ID			BH48/2_0.4-0.6	BH48/3_0.6-0.8	BH48/4_0.8-1	BH49/1_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0007045	M24-Jn0007046	M24-Jn0007047	M24-Jn0007048
Date Sampled			May 29, 2024	May 29, 2024	May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	150	-
>2mm Fraction	0.005	g	-	-	9.9	-
Analysed Material	0.1	%	-	-	94	-
Extraneous Material	0.1	%	-	-	6.3	-

Client Sample ID			BH83/4_0.7-1	DUP06
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0007049	M24-Jn0007050
Date Sampled			May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	98
Tetrachloro-m-xylene (surr.)	1	%	-	94
Heavy Metals				
Arsenic	2	mg/kg	4.0	< 2
Cadmium	0.4	mg/kg	0.5	< 0.4
Chromium	5	mg/kg	19	5.2
Copper	5	mg/kg	10	8.9
Lead	5	mg/kg	30	21
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	8.7	< 5
Zinc	5	mg/kg	26	38

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Client Sample ID			BH83/4_0.7-1	DUP06
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0007049	M24-Jn0007050
Date Sampled			May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit		
Sample Properties				
% Moisture	1	%	20	12
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5
13C4-PFBA (surr.)	1	%	-	75
13C5-PFPeA (surr.)	1	%	-	97
13C5-PFHxA (surr.)	1	%	-	112
13C4-PFHpA (surr.)	1	%	-	112
13C8-PFOA (surr.)	1	%	-	112
13C5-PFNA (surr.)	1	%	-	99
13C6-PFDA (surr.)	1	%	-	91
13C2-PFUnDA (surr.)	1	%	-	91
13C2-PFDoDA (surr.)	1	%	-	101
13C2-PFTeDA (surr.)	1	%	-	70
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10
13C8-FOSA (surr.)	1	%	-	76
D3-N-MeFOSA (surr.)	1	%	-	88
D5-N-EtFOSA (surr.)	1	%	-	87
D7-N-MeFOSE (surr.)	1	%	-	71
D9-N-EtFOSE (surr.)	1	%	-	86
D5-N-EtFOSAA (surr.)	1	%	-	86
D3-N-MeFOSAA (surr.)	1	%	-	79
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5

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Client Sample ID			BH83/4_0.7-1	DUP06
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0007049	M24-Jn0007050
Date Sampled			May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5
13C3-PFBS (surr.)	1	%	-	94
18O2-PFHxS (surr.)	1	%	-	85
13C8-PFOS (surr.)	1	%	-	86
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	165
13C2-6:2 FTSA (surr.)	1	%	-	176
13C2-8:2 FTSA (surr.)	1	%	-	87
13C2-10:2 FTSA (surr.)	1	%	-	110
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	12	-
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	100	-
p-Terphenyl-d14 (surr.)	1	%	134	-

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Client Sample ID			BH83/4_0.7-1	DUP06
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0007049	M24-Jn0007050
Date Sampled			May 29, 2024	May 29, 2024
Test/Reference	LOR	Unit		
Actual Acidity (NLM-3.2)				
pH-KCL (NLM-3.1)	0.1	pH Units	12	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-
Potential Acidity - Titratable Peroxide				
pH-OX	0.1	pH Units	9.0	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-
Extractable Sulfur				
Sulfur - KCl Extractable	0.005	% S	0.51	-
Peroxide Extractable Sulfur	0.005	% S	0.76	-
HCl Extractable Sulfur	0.005	% S	N/A	-
Potential Acidity (SPOS)				
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.25	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	160	-
Retained Acidity (S-NAS)				
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-
Extractable Calcium				
Calcium - KCl Extractable	0.005	% Ca	1.5	-
Calcium - Peroxide	0.005	% Ca	20	-
Calcium - Acid Reacted	0.005	% Ca	18	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	15	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	9100	-
Extractable Magnesium				
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-
Magnesium - Peroxide	0.005	% Mg	0.56	-
Magnesium - Acid Reacted	0.005	% Mg	0.56	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.74	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	460	-
Acid Neutralising Capacity (ANCE)				
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	46	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	15	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	9300	-
Acid Neutralising Capacity (ANCbt)				
ANC Fineness Factor		factor	1.5	-
Net Acidity (Including ANC)				
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-
Extraneous Material				
<2mm Fraction	0.005	g	150	-
>2mm Fraction	0.005	g	6.9	-
Analysed Material	0.1	%	96	-
Extraneous Material	0.1	%	4.4	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Melbourne	Jun 04, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 04, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 05, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Cyanide (total)	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Organotins	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Volatile Organics	Melbourne	Jun 05, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 05, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 05, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 07, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 07, 2024	6 Week
- Method: LTM-GEN-7050/7070			

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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1104324
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2024 1:56 PM
Due: Jun 7, 2024
Priority: 6 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	BH37/1_0-0.2	May 29, 2024		Soil	M24-Jn0007023						X		X				X			X	
2	BH37/2_0.2-0.4	May 29, 2024		Soil	M24-Jn0007024				X								X				
3	BH38/2_0.4-06	May 29, 2024		Soil	M24-Jn0007025												X	X			
4	BH38/3_0.8-1	May 29, 2024		Soil	M24-Jn0007026		X		X				X			X	X				X
5	BH39/1_0-0.2	May 29, 2024		Soil	M24-Jn0007027												X			X	
6	BH39/2_0.4-0.6	May 29, 2024		Soil	M24-Jn0007028								X				X				
7	BH39/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007029		X					X		X	X		X	X			X
8	BH40/1_0-0.3	May 29, 2024		Soil	M24-Jn0007030	X															
9	BH40/2_0.3-0.5	May 29, 2024		Soil	M24-Jn0007031								X				X				

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1104324
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: May 30, 2024 1:56 PM
Due: Jun 7, 2024
Priority: 6 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
10	BH40/4_0.8-1	May 29, 2024		Soil	M24-Jn0007032												X	X			
11	BH41/1_0-0.2	May 29, 2024		Soil	M24-Jn0007033				X								X				
12	BH41/4_0.8-1	May 29, 2024		Soil	M24-Jn0007034							X			X		X	X			
13	BH42/1_0-0.3	May 29, 2024		Soil	M24-Jn0007035	X															
14	BH42/2_0.3-0.6	May 29, 2024		Soil	M24-Jn0007036												X	X			
15	BH42/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007037								X				X				
16	BH43/1_0-0.2	May 29, 2024		Soil	M24-Jn0007038	X											X	X			
17	BH44/1_0-0.1	May 29, 2024		Soil	M24-Jn0007039									X			X	X			
18	BH44/2_0.5-0.7	May 29, 2024		Soil	M24-Jn0007040		X										X				X
19	BH44/3_0.7-1	May 29, 2024		Soil	M24-Jn0007041				X							X	X				
20	BH45/1_0-0.2	May 29, 2024		Soil	M24-Jn0007042						X		X				X				
21	BH47/2_0.2-0.4	May 29, 2024		Soil	M24-Jn0007043							X		X	X		X	X			

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
22	BH47/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007044								X				X				
23	BH48/2_0.4-0.6	May 29, 2024		Soil	M24-Jn0007045												X	X			
24	BH48/3_0.6-0.8	May 29, 2024		Soil	M24-Jn0007046								X				X				
25	BH48/4_0.8-1	May 29, 2024		Soil	M24-Jn0007047				X							X	X				
26	BH49/1_0-0.2	May 29, 2024		Soil	M24-Jn0007048								X				X			X	
27	BH83/4_0.7-1	May 29, 2024		Soil	M24-Jn0007049				X	X			X			X	X				
28	DUP06	May 29, 2024		Soil	M24-Jn0007050						X		X				X			X	
29	RB04	May 29, 2024		Water	M24-Jn0007051														X	X	
30	TB04	May 29, 2024		Water	M24-Jn0007052															X	
31	BH37/3	May 29, 2024		Soil	M24-Jn0007053			X													
32	BH38/1	May 29, 2024		Soil	M24-Jn0007054			X													
33	BH39/4	May 29, 2024		Soil	M24-Jn0007055			X													
34	BH40/3	May 29, 2024		Soil	M24-Jn0007056			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
35	BH41/2	May 29, 2024		Soil	M24-Jn0007057			X													
36	BH41/3	May 29, 2024		Soil	M24-Jn0007058			X													
37	BH42/4	May 29, 2024		Soil	M24-Jn0007059			X													
38	BH43/2	May 29, 2024		Soil	M24-Jn0007060			X													
39	BH43/3	May 29, 2024		Soil	M24-Jn0007061			X													
40	BH45/2	May 29, 2024		Soil	M24-Jn0007062			X													
41	BH45/3	May 29, 2024		Soil	M24-Jn0007063			X													
42	BH47/1	May 29, 2024		Soil	M24-Jn0007064			X													
43	BH47/4	May 29, 2024		Soil	M24-Jn0007065			X													
44	BH48/1	May 29, 2024		Soil	M24-Jn0007066			X													
45	BH49/2	May 29, 2024		Soil	M24-Jn0007067			X													
46	BH49/3	May 29, 2024		Soil	M24-Jn0007068			X													
47	BH49/4	May 29, 2024		Soil	M24-Jn0007069			X													
48	BH83/1	May 29, 2024		Soil	M24-Jn0007070			X													
49	BH83/2	May 29, 2024		Soil	M24-Jn0007071			X													

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X					
50	BH83/3	May 29, 2024		Soil	M24-Jn0007072			X													
51	DUP05	May 29, 2024		Soil	M24-Jn0007073			X													
52	SPLIT05	May 29, 2024		Soil	M24-Jn0007076			X													
Test Counts						3	3	22	6	1	3	3	11	3	3	4	26	9	1	6	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	106			70-130	Pass	
4.4'-DDD	%	94			70-130	Pass	
4.4'-DDE	%	97			70-130	Pass	
4.4'-DDT	%	98			70-130	Pass	
a-HCH	%	94			70-130	Pass	
Aldrin	%	91			70-130	Pass	
b-HCH	%	95			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	95			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	124			70-130	Pass	
Endrin	%	122			70-130	Pass	
Endrin aldehyde	%	80			70-130	Pass	
Endrin ketone	%	96			70-130	Pass	
g-HCH (Lindane)	%	82			70-130	Pass	
Heptachlor	%	127			70-130	Pass	
Heptachlor epoxide	%	119			70-130	Pass	
Hexachlorobenzene	%	95			70-130	Pass	
Methoxychlor	%	100			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	75			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	74			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	75			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	72			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	74			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	76			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	84			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	78			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	76			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	76			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	79			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	82			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	68			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	73			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	71			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	72			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	81			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	72			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	65			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	73			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	71			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	70			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	81			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	73			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	66			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	72			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	74			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	70			50-150	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	99			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	129			70-130	Pass	
Benzo(g.h.i)perylene	%	109			70-130	Pass	
Benzo(k)fluoranthene	%	100			70-130	Pass	
Chrysene	%	96			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	108			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	108			70-130	Pass	
Naphthalene	%	109			70-130	Pass	
Phenanthrene	%	108			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Dimethoate	%	94			70-130	Pass	
Ethion	%	118			70-130	Pass	
Fenitrothion	%	98			70-130	Pass	
Methyl parathion	%	90			70-130	Pass	
Mevinphos	%	83			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	110			70-130	Pass	
Toluene	%	115			70-130	Pass	
Ethylbenzene	%	114			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	118			70-130	Pass	
Xylenes - Total*	%	119			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	99			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	104			70-130	Pass	
TRH C10-C14	%	105			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	103			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	82			70-130	Pass	
Anthracene	%	88			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	%	98			70-130	Pass	
Benzo(g.h.i)perylene	%	80			70-130	Pass	
Benzo(k)fluoranthene	%	73			70-130	Pass	
Chrysene	%	95			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	84			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	89			70-130	Pass	
Naphthalene	%	96			70-130	Pass	
Phenanthrene	%	97			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	76			70-130	Pass	
1.2-Dichlorobenzene	%	104			70-130	Pass	
1.2-Dichloroethane	%	91			70-130	Pass	
Trichloroethene	%	113			70-130	Pass	
LCS - % Recovery							
Cyanide (total)	%	107			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	98			60-140	Pass	
Dibutyltin as Sn	%	103			60-140	Pass	
Monobutyltin as Sn	%	97			60-140	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	99			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	97			80-120	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	84			70-130	Pass	
1.2-Dichlorobenzene	%	103			70-130	Pass	
1.2-Dichloroethane	%	78			70-130	Pass	
Trichloroethene	%	86			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Diazinon	%	103			70-130	Pass	
Dimethoate	%	82			70-130	Pass	
Ethion	%	88			70-130	Pass	
Fenitrothion	%	97			70-130	Pass	
Methyl parathion	%	90			70-130	Pass	
Mevinphos	%	105			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	119			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	92			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	95			70-130	Pass	
TRH C6-C10	%	91			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	102			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	108			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	95			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0007023	CP	%	103			70-130	Pass	
4.4'-DDD	M24-Jn0007023	CP	%	99			70-130	Pass	
4.4'-DDE	M24-Jn0007023	CP	%	101			70-130	Pass	
4.4'-DDT	M24-Jn0007023	CP	%	95			70-130	Pass	
a-HCH	M24-Jn0007023	CP	%	90			70-130	Pass	
Aldrin	M24-Jn0007023	CP	%	97			70-130	Pass	
b-HCH	M24-Jn0007023	CP	%	92			70-130	Pass	
d-HCH	M24-Jn0007023	CP	%	76			70-130	Pass	
Dieldrin	M24-Jn0007023	CP	%	107			70-130	Pass	
Endosulfan I	M24-Jn0007023	CP	%	101			70-130	Pass	
Endosulfan II	M24-Jn0007023	CP	%	91			70-130	Pass	
Endosulfan sulphate	M24-Jn0007023	CP	%	89			70-130	Pass	
Endrin	M24-Jn0007023	CP	%	129			70-130	Pass	
Endrin aldehyde	M24-Jn0007023	CP	%	71			70-130	Pass	
Endrin ketone	M24-Jn0007023	CP	%	108			70-130	Pass	
g-HCH (Lindane)	M24-Jn0007023	CP	%	100			70-130	Pass	
Heptachlor	M24-Jn0007023	CP	%	115			70-130	Pass	
Heptachlor epoxide	M24-Jn0007023	CP	%	104			70-130	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	M24-Jn0007023	CP	%	89			70-130	Pass	
Methoxychlor	M24-Jn0007023	CP	%	116			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0011671	NCP	%	82			75-125	Pass	
Cadmium	M24-Jn0011671	NCP	%	103			75-125	Pass	
Chromium	M24-Jn0011671	NCP	%	76			75-125	Pass	
Copper	M24-Jn0011671	NCP	%	81			75-125	Pass	
Lead	M24-Jn0011671	NCP	%	78			75-125	Pass	
Mercury	M24-Jn0011671	NCP	%	95			75-125	Pass	
Nickel	M24-Jn0011671	NCP	%	84			75-125	Pass	
Zinc	M24-Jn0011671	NCP	%	88			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0004871	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0004871	NCP	%	91			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0004871	NCP	%	92			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0004871	NCP	%	86			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0004871	NCP	%	91			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0004871	NCP	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0004871	NCP	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0004871	NCP	%	105			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0004871	NCP	%	95			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0004871	NCP	%	98			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0004871	NCP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0004871	NCP	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0004871	NCP	%	103			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0004871	NCP	%	80			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0004871	NCP	%	97			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0004871	NCP	%	92			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0004871	NCP	%	86			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0004871	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0004871	NCP	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0004871	NCP	%	81			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0004871	NCP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0004871	NCP	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0004871	NCP	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0004871	NCP	%	93			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0004871	NCP	%	87			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0004871	NCP	%	80			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0004871	NCP	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0004871	NCP	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0004871	NCP	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0004871	NCP	%	91			50-150	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0007025	CP	%	80			70-130	Pass	
Toluene	M24-Jn0007025	CP	%	81			70-130	Pass	
Ethylbenzene	M24-Jn0007025	CP	%	77			70-130	Pass	
m&p-Xylenes	M24-Jn0007025	CP	%	80			70-130	Pass	
o-Xylene	M24-Jn0007025	CP	%	87			70-130	Pass	
Xylenes - Total*	M24-Jn0007025	CP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0007025	CP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0007025	CP	%	84			70-130	Pass	
TRH C10-C14	M24-Jn0007764	NCP	%	105			70-130	Pass	
TRH C6-C10	M24-Jn0007025	CP	%	79			70-130	Pass	
TRH >C10-C16	M24-Jn0007764	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0004133	NCP	%	99			70-130	Pass	
Acenaphthylene	M24-Jn0004133	NCP	%	92			70-130	Pass	
Anthracene	M24-Jn0004133	NCP	%	101			70-130	Pass	
Benz(a)anthracene	M24-Jn0004133	NCP	%	104			70-130	Pass	
Benzo(a)pyrene	M24-Jn0004133	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0004133	NCP	%	78			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0004133	NCP	%	112			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0004133	NCP	%	89			70-130	Pass	
Chrysene	M24-Jn0004133	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0004133	NCP	%	87			70-130	Pass	
Fluoranthene	M24-Jn0004133	NCP	%	80			70-130	Pass	
Fluorene	M24-Jn0004133	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0004133	NCP	%	88			70-130	Pass	
Naphthalene	M24-Jn0004133	NCP	%	97			70-130	Pass	
Phenanthrene	M24-Jn0004133	NCP	%	75			70-130	Pass	
Pyrene	M24-Jn0004133	NCP	%	119			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0007025	CP	%	120			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0007025	CP	%	76			70-130	Pass	
1.2-Dichloroethane	M24-Jn0007025	CP	%	73			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	M24-Jn0007025	CP	%	90			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M24-Jn0007029	CP	%	92			60-140	Pass	
Dibutyltin as Sn	M24-Jn0007029	CP	%	96			60-140	Pass	
Monobutyltin as Sn	M24-Jn0007029	CP	%	95			60-140	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0014978	NCP	%	77			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0014978	NCP	%	72			70-130	Pass	
1.2-Dichloroethane	M24-Jn0014978	NCP	%	74			70-130	Pass	
Trichloroethene	M24-Jn0014978	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-Jn0004601	NCP	%	117			70-130	Pass	
Dimethoate	M24-Jn0004601	NCP	%	81			70-130	Pass	
Ethion	M24-Jn0004601	NCP	%	116			70-130	Pass	
Fenitrothion	M24-Jn0004601	NCP	%	97			70-130	Pass	
Methyl parathion	M24-Jn0004601	NCP	%	84			70-130	Pass	
Mevinphos	M24-Jn0004601	NCP	%	90			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0007032	CP	%	116			70-130	Pass	
Toluene	M24-Jn0007032	CP	%	122			70-130	Pass	
Ethylbenzene	M24-Jn0007032	CP	%	124			70-130	Pass	
m&p-Xylenes	M24-Jn0007032	CP	%	127			70-130	Pass	
o-Xylene	M24-Jn0007032	CP	%	128			70-130	Pass	
Xylenes - Total*	M24-Jn0007032	CP	%	127			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0007032	CP	%	120			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0007032	CP	%	128			70-130	Pass	
TRH C6-C10	M24-Jn0007032	CP	%	106			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0007034	CP	%	88			70-130	Pass	
Aroclor-1260	M24-Jn0007034	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0004870	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0004870	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0004870	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0004870	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0007025	CP	mg/kg	3.0	3.0	<1	30%	Pass	
Cadmium	M24-Jn0007025	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0007025	CP	mg/kg	30	31	5.8	30%	Pass	
Copper	M24-Jn0007025	CP	mg/kg	15	15	4.2	30%	Pass	
Lead	M24-Jn0007025	CP	mg/kg	9.7	9.9	2.6	30%	Pass	
Mercury	M24-Jn0007025	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0007025	CP	mg/kg	14	15	4.8	30%	Pass	
Zinc	M24-Jn0007025	CP	mg/kg	28	29	3.7	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0007026	CP	pH Units	9.7	9.9	pass	30%	Pass	
Cyanide (total)	M24-Jn0001618	NCP	mg/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-Jn0007026	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-Jn0007026	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-Jn0007026	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-Jn0007026	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-Jn0007026	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-Jn0007026	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-Jn0007026	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-Jn0007026	CP	pH Units	10	10	1.3	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0007026	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0007026	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-Jn0007026	CP	pH Units	7.9	8.1	2.5	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-Jn0007026	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-Jn0007026	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-Jn0007026	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-Jn0007026	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-Jn0007026	CP	% S	0.020	0.018	9.7	30%	Pass	
Peroxide Extractable Sulfur	M24-Jn0007026	CP	% S	0.064	0.066	3.1	20%	Pass	
HCl Extractable Sulfur	M24-Jn0007026	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-Jn0007026	CP	% S	0.044	0.048	8.3	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-Jn0007026	CP	mol H+/t	28	30	8.3	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-Jn0007026	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-Jn0007026	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-Jn0007026	CP	% Ca	0.26	0.25	6.4	30%	Pass	
Calcium - Peroxide	M24-Jn0007026	CP	% Ca	6.2	6.6	5.9	20%	Pass	
Calcium - Acid Reacted	M24-Jn0007026	CP	% Ca	5.9	6.3	6.4	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-Jn0007026	CP	% S	4.7	5.1	6.4	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-Jn0007026	CP	mol H+/t	3000	3200	6.4	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-Jn0007026	CP	% Mg	0.007	0.005	20	30%	Pass	
Magnesium - Peroxide	M24-Jn0007026	CP	% Mg	0.13	0.13	<1	20%	Pass	
Magnesium - Acid Reacted	M24-Jn0007026	CP	% Mg	0.13	0.13	<1	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-Jn0007026	CP	% S	0.17	0.17	<1	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-Jn0007026	CP	mol H+/t	100	110	<1	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-Jn0007026	CP	% CaCO3	15	15	<1	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-Jn0007026	CP	mol H+/t	3000	3000	<1	30%	Pass	

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Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-Jn0007026	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-Jn0007026	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-Jn0007026	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-Jn0007026	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0007029	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0007029	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0007029	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0007029	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0007029	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0007029	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0007029	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Phenanthrene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0007029	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-Jn0013947	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0004609	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0004609	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0004609	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0004609	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0007029	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0007032	CP	%	29	29	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0007032	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0007032	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0007032	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0007032	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0007032	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0007032	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0007032	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M24-Jn0007032	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0007032	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0007032	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M24-Jn0007032	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M24-Jn0007032	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0007032	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0007032	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0007032	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0007043	CP	%	26	27	<1	30%	Pass	

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Comments

This report has been revised V2 to correct sample names to include sample depths. Per COC.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Laxman Dias	Senior Analyst-Asbestos
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1107846-W-V2**
Project name OSBORNE EIS
Project ID 67064
Received Date Jun 14, 2024

Client Sample ID			**GW01**	**GW02**	**GW03**	**MW04**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M24-Jn0033773**	**M24-Jn0033774**	**M24-Jn0033775**	**M24-Jn0033776**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	[G01]< 0.2	[G01]< 0.5	< 0.02	0.06
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.62
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.7
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	1.32
TRH C6-C10	0.02	mg/L	[G01]< 0.2	[G01]< 0.5	< 0.02	0.06
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.2	< 0.5	< 0.02	0.06
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	1.0
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	1
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.2
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	1.2
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.01
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.015
4-Bromofluorobenzene (surr.)	1	%	84	99	94	79
Dissolved Gases						
Methane	0.05	mg/L	0.10	< 0.05	1.6	0.31
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.11
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.49
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	0.002	0.006
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.025
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.01
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.015
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.01
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
4-Bromofluorobenzene (surr.)	1	%	84	99	94	79
Toluene-d8 (surr.)	1	%	93	102	102	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.05

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	65	63	78	94
p-Terphenyl-d14 (surr.)	1	%	149	102	146	92
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	109	78	139	66
Tetrachloro-m-xylene (surr.)	1	%	80	81	109	84

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchlorendate (surr.)	1	%	109	78	139	66
Tetrachloro-m-xylene (surr.)	1	%	80	81	109	84
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.21
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Total cresols*	0.01	mg/L	< 0.01	< 0.01	< 0.01	0.21
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.098
Phenol-d6 (surr.)	1	%	107	80	122	49
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.3
Organotins						
Tributyltin	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Tributyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tributyltin Oxide	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Dibutyltin	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Monobutyltin	0.0075	mg/L	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Monobutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tripropyltin as Sn (surr.)	1	%	59	58	int	68
Ammonia (as N)	0.01	mg/L	3.3	1.2	46	130
Biochemical Oxygen Demand (BOD-5 Day)	5	mg/L	6.3	6.3	190	2200
Chloride	1	mg/L	19000	18000	21000	100000
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.25

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Cyanide (total)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.15
Dissolved Oxygen	0.01	mg/L	9.6	9.4	9.5	0.51
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	< 0.05	< 0.5	15
Nitrate (as N)	0.02	mg/L	0.03	0.03	< 0.2	< 2
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.2	< 2
Oil & Grease (HEM)	10	mg/L	24	34	37	20
Organic Nitrogen (as N)*	0.2	mg/L	< 0.2	0.3	16	80
pH (at 25 °C)	0.1	pH Units	7.5	7.4	7.3	12
Salinity (expressed as TDS)*	10	mg/L	46000	29000	91000	83000
Sulphate (as SO4)	5	mg/L	3000	3000	2000	10000
Total Dissolved Solids Dried at 180 °C ± 2 °C	10	mg/L	46000	29000	91000	83000
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	3.4	1.5	62	210
Total Nitrogen (as N)*	0.2	mg/L	3.4	1.5	62	230
Total Suspended Solids Dried at 103 °C to 105 °C	5	mg/L	97	140	120	170
Turbidity	1	NTU	11	4.6	460	6.0
Phosphate total (as P)	0.01	mg/L	0.05	0.46	0.77	6.2
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.003	0.003	0.14	0.14
Cadmium (filtered)	0.0002	mg/L	< 0.001	< 0.001	< 0.002	< 0.02
Chromium (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Copper (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Lead (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Mercury (filtered)	0.0001	mg/L	< 0.005	< 0.005	< 0.001	< 0.01
Molybdenum (filtered)	0.005	mg/L	< 0.025	< 0.025	< 0.05	< 0.5
Nickel (filtered)	0.001	mg/L	0.001	< 0.005	< 0.01	0.18
Selenium (filtered)	0.001	mg/L	< 0.005	0.014	0.021	1.4
Zinc (filtered)	0.005	mg/L	< 0.025	< 0.025	< 0.01	< 0.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.03	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	72	67	67	74
13C5-PFPeA (surr.)	1	%	128	118	88	92
13C5-PFHxA (surr.)	1	%	127	116	98	80
13C4-PFHpA (surr.)	1	%	118	105	98	23
13C8-PFOA (surr.)	1	%	114	96	108	65
13C5-PFNA (surr.)	1	%	104	86	90	82
13C6-PFDA (surr.)	1	%	84	75	69	90
13C2-PFUnDA (surr.)	1	%	95	87	82	130
13C2-PFDoDA (surr.)	1	%	68	79	72	124
13C2-PFTeDA (surr.)	1	%	32	88	41	124

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	104	92	76	85
D3-N-MeFOSA (surr.)	1	%	54	70	40	63
D5-N-EtFOSA (surr.)	1	%	58	70	39	74
D7-N-MeFOSE (surr.)	1	%	74	68	53	77
D9-N-EtFOSE (surr.)	1	%	79	75	61	84
D5-N-EtFOSAA (surr.)	1	%	60	60	73	165
D3-N-MeFOSAA (surr.)	1	%	65	62	57	199
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	100	91	84	27
18O2-PFHxS (surr.)	1	%	95	86	87	64
13C8-PFOS (surr.)	1	%	82	73	79	67
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	128	95	115	38
13C2-6:2 FTSA (surr.)	1	%	111	73	102	124
13C2-8:2 FTSA (surr.)	1	%	75	62	67	190
13C2-10:2 FTSA (surr.)	1	%	77	77	59	197
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.1	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.12	< 0.1	< 0.1	< 0.1

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	91	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	95
13C5-PFPeA (surr.)	1	%	125	129
13C5-PFHxA (surr.)	1	%	118	120
13C4-PFHpA (surr.)	1	%	106	106
13C8-PFOA (surr.)	1	%	100	105

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFNA (surr.)	1	%	99	107
13C6-PFDA (surr.)	1	%	89	94
13C2-PFUnDA (surr.)	1	%	111	114
13C2-PFDoDA (surr.)	1	%	90	91
13C2-PFTeDA (surr.)	1	%	65	61
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	69	114
D3-N-MeFOSA (surr.)	1	%	100	42
D5-N-EtFOSA (surr.)	1	%	106	41
D7-N-MeFOSE (surr.)	1	%	38	95
D9-N-EtFOSE (surr.)	1	%	45	103
D5-N-EtFOSAA (surr.)	1	%	82	83
D3-N-MeFOSAA (surr.)	1	%	77	85
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	95
18O2-PFHxS (surr.)	1	%	84	88
13C8-PFOS (surr.)	1	%	87	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	91	91
13C2-6:2 FTSA (surr.)	1	%	70	61
13C2-8:2 FTSA (surr.)	1	%	73	76
13C2-10:2 FTSA (surr.)	1	%	114	100

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8 filtered			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8 filtered	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Dissolved Gases	Melbourne	Jun 17, 2024	14 Days
- Method: in-house method LTM-ORG-2070 by Headspace GC-FID			
Volatile Organics	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Organotins	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Biochemical Oxygen Demand (BOD-5 Day)	Melbourne	Jun 15, 2024	2 Days
- Method: LTM-INO-4010 Biochemical Oxygen Demand (BOD5) in Water			
Chloride	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
Chromium (hexavalent)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Dissolved Oxygen	Melbourne	Jun 19, 2024	28 Days
- Method: APHA 4500-O B, C, G using Dissolved Oxygen analyser			
Oil & Grease (HEM)	Melbourne	Jun 21, 2024	28 Days
- Method: LTM-INO-4180 Oil and Grease			
pH (at 25 °C)	Melbourne	Jun 15, 2024	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Salinity (expressed as TDS)*	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-INO-4030			
Sulphate (as SO4)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
Total Suspended Solids Dried at 103 °C to 105 °C	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Turbidity	Melbourne	Jun 17, 2024	28 Days
- Method: Turbidity by classical using APHA 2130B (LTM-INO-4140)			
Phosphate total (as P)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Heavy Metals (filtered)	Melbourne	Jun 17, 2024	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Phenols (Speciated)			
Phenols (Halogenated)	Melbourne	Jun 17, 2024	7 Days

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Description	Testing Site	Extracted	Holding Time
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, NH3, Total P			
Ammonia (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrate & Nitrite (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrate (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrite (as N)	Melbourne	Jun 15, 2024	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Jun 14, 2024	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Jun 17, 2024	28 Days
- Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 14, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1107846
Phone: 08 8431 7113
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Received: Jun 14, 2024 12:59 PM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Biochemical Oxygen Demand (BOD-5 Day)	Chloride	Chromium (hexavalent)	Cyanide (total)	Dissolved Oxygen	Methane	Molybdenum (filtered)	Oil & Grease (HEM)	pH (at 25 °C)	Phosphate total (as P)	Salinity (expressed as TDS)*	Selenium (filtered)	Sulphate (as SO4)	Total Suspended Solids Dried at 103 °C to 105 °C	Turbidity	Phenols (Speciated)	Volatile Organics	Eurofins Suite B6: BTEX/TRH/M8	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, NH3, Total P	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Total Dissolved Solids Dried at 180 °C ± 2 °C	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																							
1	GW01	Jun 13, 2024		Water	M24-Jn0033773	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
2	GW02	Jun 13, 2024		Water	M24-Jn0033774	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
3	GW03	Jun 13, 2024		Water	M24-Jn0033775	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
4	MW04	Jun 13, 2024		Water	M24-Jn0033776	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
5	RB01	Jun 13, 2024		Water	M24-Jn0033777																		X		X			
6	TB01	Jun 13, 2024		Water	M24-Jn0033778																				X			
Test Counts						4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	6	4	4	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Organotins							
Tributyltin	mg/L	< 0.0125			0.0125	Pass	
Tributyltin as Sn	mg/L	< 0.005			0.005	Pass	
Tributyltin Oxide	mg/L	< 0.0125			0.0125	Pass	
Dibutyltin	mg/L	< 0.01			0.01	Pass	
Dibutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Monobutyltin	mg/L	< 0.0075			0.0075	Pass	
Monobutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Biochemical Oxygen Demand (BOD-5 Day)	mg/L	< 5			5	Pass	
Chloride	mg/L	< 1			1	Pass	
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cyanide (total)	mg/L	< 0.005			0.005	Pass	
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Oil & Grease (HEM)	mg/L	< 10			10	Pass	
Salinity (expressed as TDS)*	mg/L	< 10			10	Pass	
Sulphate (as SO4)	mg/L	< 5			5	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 10			10	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	mg/L	< 5			5	Pass	
Turbidity	NTU	< 1			1	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	

eurofins | Environment Testing

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Phosphate total (as P)	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	118			70-130	Pass	
TRH C10-C14	%	102			70-130	Pass	
TRH C6-C10	%	119			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	96			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Dissolved Gases							
Methane	%	73			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	98			70-130	Pass	
1.2-Dichlorobenzene	%	93			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Trichloroethene	%	115			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	102			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	108			70-130	Pass	
4.4'-DDD	%	130			70-130	Pass	
4.4'-DDE	%	111			70-130	Pass	
4.4'-DDT	%	94			70-130	Pass	
a-HCH	%	105			70-130	Pass	
Aldrin	%	100			70-130	Pass	
b-HCH	%	128			70-130	Pass	
d-HCH	%	122			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	128			70-130	Pass	
Endosulfan II	%	117			70-130	Pass	
Endosulfan sulphate	%	123			70-130	Pass	
Endrin	%	100			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	120			70-130	Pass	
g-HCH (Lindane)	%	116			70-130	Pass	
Heptachlor	%	112			70-130	Pass	
Heptachlor epoxide	%	98			70-130	Pass	
Hexachlorobenzene	%	111			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	108			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	110			25-140	Pass	
2.4-Dichlorophenol	%	103			25-140	Pass	
2.4.5-Trichlorophenol	%	101			25-140	Pass	
2.4.6-Trichlorophenol	%	90			25-140	Pass	
2.6-Dichlorophenol	%	83			25-140	Pass	
4-Chloro-3-methylphenol	%	90			25-140	Pass	
Pentachlorophenol	%	99			25-140	Pass	
Tetrachlorophenols - Total	%	90			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	62			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	80			25-140	Pass	
2-Nitrophenol	%	78			25-140	Pass	
2.4-Dimethylphenol	%	34			25-140	Pass	
2.4-Dinitrophenol	%	73			25-140	Pass	
2-Methylphenol (o-Cresol)	%	84			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	81			25-140	Pass	
4-Nitrophenol	%	85			25-140	Pass	
Dinoseb	%	97			25-140	Pass	
Phenol	%	92			25-140	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	99			60-140	Pass	
Dibutyltin as Sn	%	123			60-140	Pass	
Monobutyltin as Sn	%	80			60-140	Pass	
LCS - % Recovery							
Biochemical Oxygen Demand (BOD-5 Day)	%	86			85-115	Pass	
Chloride	%	100			70-130	Pass	
Chromium (hexavalent)	%	91			70-130	Pass	
Cyanide (total)	%	104			70-130	Pass	
Nitrate & Nitrite (as N)	%	109			70-130	Pass	
Nitrite (as N)	%	95			70-130	Pass	
Oil & Grease (HEM)	%	102			70-130	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	%	89			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	%	100			70-130	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	%	115			70-130	Pass	
Turbidity	%	92			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	104			80-120	Pass	
Cadmium (filtered)	%	108			80-120	Pass	
Chromium (filtered)	%	108			80-120	Pass	
Copper (filtered)	%	106			80-120	Pass	
Lead (filtered)	%	107			80-120	Pass	
Mercury (filtered)	%	99			80-120	Pass	
Molybdenum (filtered)	%	106			80-120	Pass	
Nickel (filtered)	%	111			80-120	Pass	
Selenium (filtered)	%	103			80-120	Pass	
Zinc (filtered)	%	114			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	91			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	86			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	87			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	91			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	82			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	88			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	97			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	93			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	%	89			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	72			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	89			50-150	Pass	
LCS - % Recovery							
Sulphate (as SO4)	%	114			70-130	Pass	
Phosphate total (as P)	%	97			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	118			70-130	Pass	
Phosphate total (as P)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	94			80-120	Pass	
Mercury	%	92			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	102			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-Jn0038735	NCP	%	82			70-130	Pass	
TRH >C10-C16	M24-Jn0038735	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Dissolved Gases				Result 1					
Methane	L24-Jn0026932	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0040016	NCP	%	96			70-130	Pass	
Acenaphthylene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Anthracene	M24-Jn0040016	NCP	%	88			70-130	Pass	
Benz(a)anthracene	M24-Jn0040016	NCP	%	79			70-130	Pass	
Benzo(a)pyrene	M24-Jn0040016	NCP	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0040016	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0040016	NCP	%	72			70-130	Pass	
Chrysene	M24-Jn0040016	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Fluoranthene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Fluorene	M24-Jn0040016	NCP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Naphthalene	M24-Jn0040016	NCP	%	94			70-130	Pass	
Phenanthrene	M24-Jn0040016	NCP	%	93			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0040016	NCP	%	100			70-130	Pass	
4.4'-DDD	M24-Jn0040016	NCP	%	123			70-130	Pass	
4.4'-DDE	M24-Jn0040016	NCP	%	122			70-130	Pass	
4.4'-DDT	M24-Jn0040016	NCP	%	121			70-130	Pass	
a-HCH	M24-Jn0040016	NCP	%	120			70-130	Pass	
Aldrin	M24-Jn0040016	NCP	%	80			70-130	Pass	
b-HCH	M24-Jn0040016	NCP	%	114			70-130	Pass	
d-HCH	M24-Jn0040016	NCP	%	128			70-130	Pass	
Dieldrin	M24-Jn0040016	NCP	%	109			70-130	Pass	
Endosulfan I	M24-Jn0040016	NCP	%	117			70-130	Pass	
Endosulfan II	M24-Jn0040016	NCP	%	125			70-130	Pass	
Endosulfan sulphate	M24-Jn0040016	NCP	%	114			70-130	Pass	
Endrin	M24-Jn0040016	NCP	%	120			70-130	Pass	
Endrin aldehyde	M24-Jn0040016	NCP	%	127			70-130	Pass	
Endrin ketone	M24-Jn0040016	NCP	%	121			70-130	Pass	
g-HCH (Lindane)	M24-Jn0040016	NCP	%	110			70-130	Pass	
Heptachlor	M24-Jn0040016	NCP	%	108			70-130	Pass	
Heptachlor epoxide	M24-Jn0040016	NCP	%	90			70-130	Pass	
Hexachlorobenzene	M24-Jn0040016	NCP	%	109			70-130	Pass	
Methoxychlor	M24-Jn0040016	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0040016	NCP	%	101			70-130	Pass	
Aroclor-1260	M24-Jn0040016	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M24-Jn0040016	NCP	%	92			30-130	Pass	
2.4-Dichlorophenol	M24-Jn0040016	NCP	%	110			30-130	Pass	
2.4.5-Trichlorophenol	M24-Jn0040016	NCP	%	121			30-130	Pass	
2.4.6-Trichlorophenol	M24-Jn0040016	NCP	%	109			30-130	Pass	
2.6-Dichlorophenol	M24-Jn0040016	NCP	%	91			30-130	Pass	
4-Chloro-3-methylphenol	M24-Jn0040016	NCP	%	98			30-130	Pass	
Pentachlorophenol	M24-Jn0040016	NCP	%	43			30-130	Pass	
Tetrachlorophenols - Total	M24-Jn0040016	NCP	%	50			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0040016	NCP	%	105			30-130	Pass	
2-Nitrophenol	M24-Jn0040016	NCP	%	114			30-130	Pass	
2.4-Dimethylphenol	M24-Jn0040016	NCP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0040016	NCP	%	115			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0040016	NCP	%	102			30-130	Pass	
4-Nitrophenol	M24-Jn0040016	NCP	%	39			30-130	Pass	
Dinoseb	M24-Jn0040016	NCP	%	106			30-130	Pass	
Phenol	M24-Jn0040016	NCP	%	96			30-130	Pass	
Spike - % Recovery									
				Result 1					
Chloride	M24-Jn0035052	NCP	%	114			70-130	Pass	
Chromium (hexavalent)	M24-Jn0035070	NCP	%	104			70-130	Pass	
Cyanide (total)	L24-Jn0033249	NCP	%	75			70-130	Pass	
Nitrate & Nitrite (as N)	M24-Jn0033545	NCP	%	107			70-130	Pass	
Nitrite (as N)	M24-Jn0033545	NCP	%	92			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Sulphate (as SO4)	M24-Jn0028902	NCP	%	114			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	M24-Jn0033545	NCP	%	118			70-130	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	M24-Jn0035577	NCP	%	108			70-130	Pass	
Phosphate total (as P)	M24-Jn0033409	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Molybdenum (filtered)	M24-Jn0033773	CP	%	89			75-125	Pass	
Selenium (filtered)	M24-Jn0033773	CP	%	97			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0028897	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0028897	NCP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0028897	NCP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0028897	NCP	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0028897	NCP	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0028897	NCP	%	75			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0028897	NCP	%	86			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0028897	NCP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0028897	NCP	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0028897	NCP	%	100			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0028897	NCP	%	105			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0028897	NCP	%	98			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0028897	NCP	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0028897	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0028897	NCP	%	88			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0028897	NCP	%	83			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0028897	NCP	%	70			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0028897	NCP	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0028897	NCP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0028897	NCP	%	61			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0028897	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0028897	NCP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0028897	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0028897	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0033405	NCP	%	74			70-130	Pass	
TRH C6-C10	M24-Jn0033405	NCP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0033405	NCP	%	89			70-130	Pass	
Toluene	M24-Jn0033405	NCP	%	83			70-130	Pass	
Ethylbenzene	M24-Jn0033405	NCP	%	77			70-130	Pass	
m&p-Xylenes	M24-Jn0033405	NCP	%	77			70-130	Pass	
o-Xylene	M24-Jn0033405	NCP	%	78			70-130	Pass	
Xylenes - Total*	M24-Jn0033405	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0033405	NCP	%	98			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0033405	NCP	%	78			70-130	Pass	
1.2-Dichloroethane	M24-Jn0033405	NCP	%	91			70-130	Pass	
Trichloroethene	M24-Jn0033405	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0033405	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0032187	NCP	%	114			75-125	Pass	
Cadmium	M24-Jn0032187	NCP	%	111			75-125	Pass	
Chromium	M24-Jn0032187	NCP	%	112			75-125	Pass	
Copper	M24-Jn0036285	NCP	%	90			75-125	Pass	
Lead	M24-Jn0032187	NCP	%	105			75-125	Pass	
Mercury	M24-Jn0036285	NCP	%	96			75-125	Pass	
Nickel	M24-Jn0032187	NCP	%	109			75-125	Pass	
Zinc	M24-Jn0032187	NCP	%	112			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0036254	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M24-Jn0038734	NCP	mg/L	0.11	0.11	<1	30%	Pass	
TRH C15-C28	M24-Jn0038734	NCP	mg/L	< 0.1	0.1	99	30%	Fail	Q15
TRH C29-C36	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-Jn0036254	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-Jn0038734	NCP	mg/L	0.17	0.18	2.8	30%	Pass	
TRH >C16-C34	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-Jn0036254	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-Jn0036254	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Dissolved Gases				Result 1	Result 2	RPD			
Methane	M24-Jn0033407	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
trans-1.3-Dichloropropene	M24-Jn0036254	NCP	mg/L	0.003	0.003	19	30%	Pass	
Trichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0036254	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035058	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4.5-Trichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4.6-Trichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.6-Dichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Pentachlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Tetrachlorophenols - Total	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Nitrophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4-Dimethylphenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0035058	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
4-Nitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Dinoseb	M24-Jn0035058	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Phenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Tributyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tributyltin Oxide	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Dibutyltin	S24-Jn0010679	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Dibutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Monobutyltin	S24-Jn0010679	NCP	mg/L	< 0.0075	< 0.0075	<1	30%	Pass	
Monobutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M24-Jn0033408	NCP	mg/L	0.94	0.90	4.2	30%	Pass	
Biochemical Oxygen Demand (BOD-5 Day)	M24-Jn0028552	NCP	mg/L	51	53	2.2	30%	Pass	
Chromium (hexavalent)	M24-Jn0017406	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cyanide (total)	L24-Jn0033250	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nitrate & Nitrite (as N)	M24-Jn0033408	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Nitrite (as N)	M24-Jn0033408	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
pH (at 25 °C)	M24-Jn0035571	NCP	pH Units	8.7	8.7	pass	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	M24-Jn0036291	NCP	mg/L	4300	3800	12	30%	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	M24-Jn0031891	NCP	mg/L	< 5	5.0	22	30%	Pass	
Turbidity	M24-Jn0031893	NCP	NTU	5.1	4.9	5.4	30%	Pass	
Phosphate total (as P)	M24-Jn0035570	NCP	mg/L	0.05	0.05	7.7	30%	Pass	

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Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
				Result 1	Result 2	RPD			
Dissolved Oxygen	M24-Jn0033774	CP	mg/L	9.4	9.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	M24-Jn0033775	CP	mg/L	21000	21000	<1	30%	Pass	
Sulphate (as SO4)	M24-Jn0033775	CP	mg/L	2000	2000	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Kjeldahl Nitrogen (as N)	M24-Jn0033776	CP	mg/L	210	220	3.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M24-Jn0032187	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-Jn0036285	NCP	mg/L	0.011	0.011	4.4	30%	Pass	
Lead	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-Jn0036285	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M24-Jn0032187	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Comments

This report has been revised V2 to fix QA/QC fails within the report. Also holding times have been adjusted to reflect the true extraction date.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mele Singh	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME: .	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au

~~110850~~
110812
HC 15/6.

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
BH51/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X	X													X		Please send SPLIT07 and SPLIT08 to Envirolab for
BH51/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		analysis with a copy of this COC
BH51/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH52/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH52/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH52/3	0.7		Soil	12/06/2024		1 Jar	1																X		
BH53/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH53/2	0.2-0.3		Soil	12/06/2024		1 Jar	1																		
BH53/3	0.5-0.7		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH53/4	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH54/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH54/2	0.4-0.6		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH54/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2				X	X	X		X						X				
BH92/1	0-0.2		Soil	12/06/2024		1 Jar	1										X								
BH92/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH92/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH55/1	0-0.2		Soil	12/06/2024		1 Jar	1																X		
BH55/2	0.3-0.6		Soil	12/06/2024		1 Jar	1																		
BH55/3	0.9-1.0		Soil	12/06/2024		1 Jar	1								X								X		
BH56/1	0-0.2		Soil	12/06/2024		1 Jar	1										X								
BH56/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH56/3	0.7-1.0		Soil	12/06/2024		1 Jar	1										X								
BH57/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X						X		X	X		
BH57/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH57/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
BH61/1	0.05-0.3		Soil	12/06/2024		1 Jar	1																X		
BH61/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																		
BH61/3	0.8-1.0		Soil	12/06/2024		1 Jar	1																		
BH63/1	0.1-0.3		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH63/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																		
BH63/3	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				

CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	*NOTES
BH64/1	0-0.3		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X				X		X		X	X		
BH64/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																X		
BH64/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH71/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X													X	X		
BH71/2	0.2-0.5		Soil	12/06/2024		1 Jar	1																		
BH71/3	0.6-1.0		Soil	12/06/2024		1 Jar	1																		
BH72/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH72/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH72/3	0.6-1.0		Soil	12/06/2024		1 Jar	1																		
BH76/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X												
BH76/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	X	
BH76/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
BH79/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X	X										
BH79/2	0.4-0.6		Soil	12/06/2024		1 Jar	1								X		X	X	X						
BH79/3	0.8-1.0		Soil	12/06/2024		1 Jar	1				X	X			X					X	X	X	X		
BH80/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X																
BH80/2	0.4-0.6		Soil	12/06/2024		1 Jar	1								X		X	X	X						
BH80/3	0.7-1.0		Soil	12/06/2024		1 Jar	1								X					X		X		X	
BH91/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X	X			X								
BH91/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH91/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X						X				
BH94/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X												
BH94/2	0.4-0.7		Soil	12/06/2024		1 Jar	1								X			X							
BH94/3	0.7-1.0		Soil	12/06/2024		1 Jar	1					X			X						X				
BH86/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		
BH86/2	0.2-0.5		Soil	12/06/2024		1 Jar	1																		
BH86/3	0.5-0.8		Soil	12/06/2024		1 Jar	1																		
BH86/4	0.8-1.0		Soil	12/06/2024		1 Jar	1																		
BH87/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X											
BH87/2	0.2-0.5		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH87/3	0.5-0.8		Soil	12/06/2024		1 Jar	1																		

CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	'NOTES
BH87/4	0.8-1.0		Soil	12/06/2024		1 Jar	1																		
BH88/1	0-0.2		Soil	12/06/2024		1 Jar	1																		
BH88/2	0.2-0.5		Soil	12/06/2024		1 Jar	1																		
BH88/3	0.5-0.7		Soil	12/06/2024		1 Jar	1																X		
BH88/4	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2				X	X	X		X		X				X				
BH89/1	0-0.1		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X																
BH89/2	0.1-0.3		Soil	12/06/2024		1 Jar	1										X								
BH89/3	0.5-0.7		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH89/4	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
BH90/1	0-0.1		Soil	12/06/2024		1 Jar	1																		
BH90/2	0.1-0.4		Soil	12/06/2024		1 Jar	1																		
BH90/3	0.7-1.0		Soil	12/06/2024		1 Jar	1										X								
DUP07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		
DUP08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		
DUP09	-	-	Soil	12/06/2024		1 Jar	1																		
DUP10	-	-	Soil	12/06/2024		1 Jar	1																		
SPLIT07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		Please send to Envirolab for analysis
SPLIT08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		Please send to Envirolab for analysis
SPLIT09	-	-	Soil	12/06/2024		1 Jar	1																		
SPLIT10	-	-	Soil	12/06/2024		1 Jar	1																		
RB_12	-	-	Water	12/06/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
FB_12	-	-	Water	12/06/2024		1 PFAS	1		X																
								TOTAL	13	0	3	9	7	10	16	0	17	9	2	8	9	9	20	2	

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME: .	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY	**Please forward results and invoice to:**	CONSIGNMENT NOTE NO.
COOLER SEAL	labresults@jbsg.com.au	
Yes ..... No	klough@jbsg.com.au	TRANSPORT CO. NAME.
Broken ..... Intact	jayers@jbsg.com.au	
COOLER TEMP: deg.C		

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
BH51/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X	X													X		Please send SPLIT07 and SPLIT08 to Envirolab for
BH51/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		analysis with a copy of this COC
BH51/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH52/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH52/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH52/3	0.7		Soil	12/06/2024		1 Jar	1																X		
BH53/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH53/2	0.2-0.3		Soil	12/06/2024		1 Jar	1																		
BH53/3	0.5-0.7		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH53/4	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH54/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH54/2	0.4-0.6		Soil	12/06/2024		1 Jar	1											X		X		X	X		
BH54/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2				X	X	X		X						X				
BH92/1	0-0.2		Soil	12/06/2024		1 Jar	1										X								
BH92/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH92/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
BH55/1	0-0.2		Soil	12/06/2024		1 Jar	1																	X	
BH55/2	0.3-0.6		Soil	12/06/2024		1 Jar	1																		
BH55/3	0.9-1.0		Soil	12/06/2024		1 Jar	1								X									X	
BH56/1	0-0.2		Soil	12/06/2024		1 Jar	1										X								
BH56/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH56/3	0.7-1.0		Soil	12/06/2024		1 Jar	1										X								
BH57/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X						X		X	X		
BH57/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																		
BH57/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
BH61/1	0.05-0.3		Soil	12/06/2024		1 Jar	1																X		
BH61/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																		
BH61/3	0.8-1.0		Soil	12/06/2024		1 Jar	1																		
BH63/1	0.1-0.3		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH63/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																		
BH63/3	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au		

SAMPLE DATA						CONTAINER DATA			PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	NOTES
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
BH87/4	0.8-1.0		Soil	12/06/2024		1 Jar	1																X		
BH88/1	0-0.2		Soil	12/06/2024		1 Jar	1				X	X	X		X		X				X				
BH88/2	0.2-0.5		Soil	12/06/2024		1 Jar	1		X								X								
BH88/3	0.5-0.7		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2										X								
BH88/4	0.7-1.0		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2											X		X		X	X		
BH89/1	0-0.1		Soil	12/06/2024		1 Jar	1					X	X		X		X								
BH89/2	0.1-0.3		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2																		
BH89/3	0.5-0.7		Soil	12/06/2024		1 Jar	1										X								
BH89/4	0.7-1.0		Soil	12/06/2024		1 Jar	1																X		
BH90/1	0-0.1		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2																X		
BH90/2	0.1-0.4		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		
BH90/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																		
DUP07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		
DUP08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		
DUP09	-	-	Soil	12/06/2024		1 Jar	1																		
DUP10	-	-	Soil	12/06/2024		1 Jar	1																		
SPLIT07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		Please send to Envirolab for analysis
SPLIT08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		Please send to Envirolab for analysis
SPLIT09	-	-	Soil	12/06/2024		1 Jar	1																		
SPLIT10	-	-	Soil	12/06/2024		1 Jar	1																		
RB_12	-	-	Water	12/06/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
FB_12	-	-	Water	12/06/2024		1 PFAS	1		X																
								TOTAL	13	0	3	9	7	10	16	0	17	9	2	8	9	9	20	2	

Jessica Sheppard

From: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Sent: Friday, 14 June 2024 2:02 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected 12th June (Osborne 67064)
Attachments: Batch 4_COC_120624_Eurofins.xlsx

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

Hi Jess- COC attached

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)
If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Friday, June 14, 2024 1:41 PM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Subject: Completed COC for soil samples collected 12th June (Osborne 67064)
Importance: High

Hi Amy,

Please find attached completed COC for soil samples collected Wednesday (12th June) for Osborne.

Please note SPLIT07 and SPLIT08 are to be sent to Envirolab for analysis with a copy of the COC.

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PROJECT INFORMATION

Date Received: 12/6/24

Company: JBS&G

Contact person: Kate Lough

Contact Number:

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne EIS

Project Number: 67064

COC: **Attached** ☐
E-mailed ☐ → To be sent 13/6/24
Not received ☐

Ass bag were frozen.

11.3°C
−0.1°C
11.2°C
on IB

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2370

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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Jack Ayers
Project name: Osborne EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 15, 2024 2:02 PM
Eurofins reference 1108012

Sample Information

✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

✓ All samples have been received as described on the above COC.

✓ COC has been completed correctly.

✓ Attempt to chill was evident.

✓ Appropriately preserved sample containers have been used.

✓ All samples were received in good condition.

✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

✓ Appropriate sample containers have been used.

✓ Sample containers for volatile analysis received with zero headspace.

✓ Split sample sent to requested external lab.

✗ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Missing Samples: BH72/2, BH72/3. Rec'd 3xBH72/1, samples labelled. BH72/1 - 0-0.2, BH72/1 A, BH72/B. samples on hold or testing removed from jars(bag will still be tested for Asb). Missing Sample: RB_12, FB_12. DUP08 only glass jar rec'd no asbestos bag as per coc.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Jack Ayers - jayers@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Jack Ayers
Report	1108012-AID
Project Name	Osborne EIS
Project ID	67064
Received Date	Jun 15, 2024
Date Reported	Jun 25, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name Osborne EIS
Project ID 67064
Date Sampled Jun 12, 2024
Report 1108012-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH52/1 - 0-0.2	24-Jn0035318	Jun 12, 2024	Approximate Sample 425g Sample consisted of: Brown fine-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH54/1 - 0-0.2	24-Jn0035322	Jun 12, 2024	Approximate Sample 344g Sample consisted of: Brown fine-grained soil, organic debris, brick, plastic, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH57/1 - 0-0.2	24-Jn0035330	Jun 12, 2024	Approximate Sample 517g Sample consisted of: Brown fine-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH64/1 - 0-0.3	24-Jn0035335	Jun 12, 2024	Approximate Sample 391g Sample consisted of: Brown fine-grained soil, brick, glass, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH72/1 - 0-0.2	24-Jn0035338	Jun 12, 2024	Approximate Sample 359g Sample consisted of: Brown fine-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH76/1 - 0-0.2	24-Jn0035339	Jun 12, 2024	Approximate Sample 455g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH79/1 - 0-0.2	24-Jn0035342	Jun 12, 2024	Approximate Sample 456g Sample consisted of: Brown fine-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH91/1 - 0-0.2	24-Jn0035348	Jun 12, 2024	Approximate Sample 353g Sample consisted of: Brown fine-grained soil, brick, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

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Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH94/1 - 0-0.2	24-Jn0035350	Jun 12, 2024	Approximate Sample 525g Sample consisted of: Brown fine-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH87/1 - 0-0.2	24-Jn0035354	Jun 12, 2024	Approximate Sample 157g Sample consisted of: Brown fine-grained soil, brick, cement, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 15, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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NATA# 2377
Site# 2370

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+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X		X				
External Laboratory																	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	BH51/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035317					X						X		X		X	
2	BH52/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035318	X							X				X				
3	BH52/3 - 0.7	Jun 12, 2024		Soil	M24-Jn0035319												X		X		
4	BH53/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035320								X				X			X	
5	BH53/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035321							X		X	X		X		X		
6	BH54/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035322	X							X				X				
7	BH54/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035323							X		X	X		X		X		
8	BH54/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035324		X		X							X	X	X			X
9	BH92/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035325								X				X				
10	BH55/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035326												X		X		

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
11	BH55/3 - 0.9-1.0	Jun 12, 2024		Soil	M24-Jn0035327				X								X		X			
12	BH56/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035328								X				X					
13	BH56/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035329								X				X					
14	BH57/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035330	X						X		X			X		X			
15	BH57/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035331		X		X				X			X	X					X
16	BH61/1 - 0.05-0.3	Jun 12, 2024		Soil	M24-Jn0035332												X		X			
17	BH63/1 - 0.1-0.3	Jun 12, 2024		Soil	M24-Jn0035333								X				X				X	
18	BH63/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035334		X		X				X			X	X					X
19	BH64/1 - 0-0.3	Jun 12, 2024		Soil	M24-Jn0035335	X						X		X	X		X		X			
20	BH64/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035336												X		X			

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NATA# 1261
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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
21	BH71/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035337									X			X		X		X	
22	BH72/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035338	X																
23	BH76/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035339	X											X				X	
24	BH76/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035340												X		X			
25	BH76/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035341		X		X				X			X	X					X
26	BH79/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035342	X			X								X					
27	BH79/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035343				X		X		X		X		X					
28	BH79/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035344		X		X			X		X			X	X	X			X
29	BH80/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035345												X				X	
30	BH80/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035346				X		X		X		X		X					
31	BH80/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035347				X			X		X			X			X		

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
32	BH91/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035348	X			X						X		X				X	
33	BH91/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035349		X		X							X	X					X
34	BH94/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035350	X											X				X	
35	BH94/2 - 0.4-0.7	Jun 12, 2024		Soil	M24-Jn0035351				X						X		X					
36	BH94/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035352		X		X								X					X
37	BH86/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035353												X		X		X	
38	BH87/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035354	X																
39	BH87/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035355							X		X	X		X		X			
40	BH88/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035356												X		X			
41	BH88/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035357		X		X				X			X	X	X				X
42	BH89/1 - 0-0.1	Jun 12, 2024		Soil	M24-Jn0035358												X				X	

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
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Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
43	BH89/2 - 0.1-0.3	Jun 12, 2024		Soil	M24-Jn0035359								X				X					
44	BH89/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035360							X		X	X		X		X			
45	BH89/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035361		X		X				X			X	X					X
46	BH90/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035362								X				X					
47	DUP07	Jun 12, 2024		Soil	M24-Jn0035363												X		X		X	
48	DUP08	Jun 12, 2024		Soil	M24-Jn0035364												X		X			
49	BH51/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035367			X														
50	BH51/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035368			X														
51	BH52/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035369			X														
52	BH53/2 - 0.2-	Jun 12, 2024		Soil	M24-Jn0035370			X														

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.3																					
53	BH53/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035371			X														
54	BH92/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035372			X														
55	BH92/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035373			X														
56	BH55/2 - 0.3-0.6	Jun 12, 2024		Soil	M24-Jn0035374			X														
57	BH56/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035375			X														
58	BH57/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035376			X														
59	BH61/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035377			X														
60	BH61/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035378			X														

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
61	BH63/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035379			X														
62	BH64/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035380			X														
63	BH71/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035381			X														
64	BH71/3 - 0.6-1.0	Jun 12, 2024		Soil	M24-Jn0035382			X														
65	BH72/1 B	Jun 12, 2024		Soil	M24-Jn0035383			X														
66	BH72/1 A	Jun 12, 2024		Soil	M24-Jn0035384			X														
67	BH91/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035385			X														
68	BH86/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035386			X														
69	BH86/3 - 0.5-0.8	Jun 12, 2024		Soil	M24-Jn0035387			X														
70	BH86/4 - 0.8-	Jun 12, 2024		Soil	M24-Jn0035388			X														

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	1.0																					
71	BH87/3 - 0.5-0.8	Jun 12, 2024		Soil	M24-Jn0035389			X														
72	BH87/4 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035390			X														
73	BH88/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035391			X														
74	BH88/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035392			X														
75	BH90/1 - 0-0.1	Jun 12, 2024		Soil	M24-Jn0035393			X														
76	BH90/2 - 0.1-0.4	Jun 12, 2024		Soil	M24-Jn0035394			X														
77	DUP09	Jun 12, 2024		Soil	M24-Jn0035395			X														
78	DUP10	Jun 12, 2024		Soil	M24-Jn0035396			X														
Test Counts						10	9	30	16	1	2	8	16	9	9	7	46	3	19	1	11	9

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V = r x t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Jack Ayers**

Report **1108012-S**
Project name Osborne EIS
Project ID 67064
Received Date Jun 15, 2024

Client Sample ID			**BH51/1 - 0-0.2**	**BH52/1 - 0-0.2**	**BH52/3 - 0.7**	**BH53/1 - 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M24-Jn0035317**	**M24-Jn0035318**	**M24-Jn0035319**	**M24-Jn0035320**
Date Sampled			**Jun 12, 2024**	**Jun 12, 2024**	**Jun 12, 2024**	**Jun 12, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	114	-	97	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-

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Client Sample ID			BH51/1 - 0-0.2	BH52/1 - 0-0.2	BH52/3 - 0.7	BH53/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035317	M24-Jn0035318	M24-Jn0035319	M24-Jn0035320
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	99	-	85	-
p-Terphenyl-d14 (surr.)	1	%	96	-	56	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	144	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.6	3.6	3.4	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	9.2	5.1	12
Copper	5	mg/kg	17	9.3	10	13
Lead	5	mg/kg	9.0	10	13	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	7.1	< 5	7.3
Zinc	5	mg/kg	21	15	28	60
Sample Properties						
% Moisture	1	%	2.9	4.2	7.9	8.7

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Client Sample ID			BH51/1 - 0-0.2	BH52/1 - 0-0.2	BH52/3 - 0.7	BH53/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035317	M24-Jn0035318	M24-Jn0035319	M24-Jn0035320
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	76	-	-	76
13C5-PFPeA (surr.)	1	%	87	-	-	88
13C5-PFHxA (surr.)	1	%	99	-	-	101
13C4-PFHpA (surr.)	1	%	85	-	-	85
13C8-PFOA (surr.)	1	%	86	-	-	87
13C5-PFNA (surr.)	1	%	87	-	-	88
13C6-PFDA (surr.)	1	%	95	-	-	94
13C2-PFUnDA (surr.)	1	%	84	-	-	92
13C2-PFDoDA (surr.)	1	%	76	-	-	79
13C2-PFTeDA (surr.)	1	%	84	-	-	96
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	66	-	-	68
D3-N-MeFOSA (surr.)	1	%	88	-	-	89
D5-N-EtFOSA (surr.)	1	%	104	-	-	100
D7-N-MeFOSE (surr.)	1	%	75	-	-	78
D9-N-EtFOSE (surr.)	1	%	75	-	-	75
D5-N-EtFOSAA (surr.)	1	%	123	-	-	125
D3-N-MeFOSAA (surr.)	1	%	114	-	-	107
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5

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Client Sample ID			BH51/1 - 0-0.2	BH52/1 - 0-0.2	BH52/3 - 0.7	BH53/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035317	M24-Jn0035318	M24-Jn0035319	M24-Jn0035320
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	83	-	-	84
18O2-PFHxS (surr.)	1	%	79	-	-	80
13C8-PFOS (surr.)	1	%	75	-	-	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	104	-	-	123
13C2-6:2 FTSA (surr.)	1	%	73	-	-	71
13C2-8:2 FTSA (surr.)	1	%	109	-	-	121
13C2-10:2 FTSA (surr.)	1	%	114	-	-	127
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-

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Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	70	-	75	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	89	-	87	-
p-Terphenyl-d14 (surr.)	1	%	73	-	69	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-

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Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	84	-	74	-
Tetrachloro-m-xylene (surr.)	1	%	58	-	56	-
Heavy Metals						
Arsenic	2	mg/kg	110	5.5	6.7	-
Cadmium	0.4	mg/kg	10	< 0.4	1.9	-
Chromium	5	mg/kg	23	14	8.1	-
Copper	5	mg/kg	77	12	16	-
Iron	20	mg/kg	-	-	-	5900
Lead	5	mg/kg	940	13	300	-
Mercury	0.1	mg/kg	0.2	< 0.1	0.2	-
Nickel	5	mg/kg	54	11	14	-
Zinc	5	mg/kg	590	98	67	-
Sample Properties						
% Moisture	1	%	39	4.7	13	22
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-

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Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	70	-	75	-
Toluene-d8 (surr.)	1	%	68	-	74	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-

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Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	71	-	54	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	84	-	74	-
Tetrachloro-m-xylene (surr.)	1	%	58	-	56	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	103
% Clay	2.5	%	-	-	-	5.0
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	3600
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	11
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	-	10
Total Organic Carbon	0.1	%	-	-	-	1.8
Heavy Metals						
Iron (%)	0.01	%	-	-	-	0.59
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	-	44

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Client Sample ID			BH53/3 - 0.5-0.7	BH54/1 - 0-0.2	BH54/2 - 0.4-0.6	BH54/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035321	M24-Jn0035322	M24-Jn0035323	M24-Jn0035324
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.7
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.33
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.41
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.079
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	49
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.64
Calcium - Peroxide	0.005	% Ca	-	-	-	25
Calcium - Acid Reacted	0.005	% Ca	-	-	-	25
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	20
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	12000
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.30
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.30
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.39
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	250
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	61
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	19
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	12000
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	83
>2mm Fraction	0.005	g	-	-	-	< 0.005
Analysed Material	0.1	%	-	-	-	100
Extraneous Material	0.1	%	-	-	-	< 0.1

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Client Sample ID			BH92/1 - 0-0.2	BH55/1 - 0-0.2	BH55/3 - 0.9-1.0	BH56/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035325	M24-Jn0035326	M24-Jn0035327	M24-Jn0035328
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	91	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	91	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	85	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	107	82	-
p-Terphenyl-d14 (surr.)	1	%	-	50	51	-

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Client Sample ID			BH92/1 - 0-0.2	BH55/1 - 0-0.2	BH55/3 - 0.9-1.0	BH56/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035325	M24-Jn0035326	M24-Jn0035327	M24-Jn0035328
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.7	4.8	2.7	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	16	< 5	12
Copper	5	mg/kg	9.5	11	< 5	12
Lead	5	mg/kg	11	17	7.3	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	6.6	< 5	7.8
Zinc	5	mg/kg	36	62	15	52
Sample Properties						
% Moisture	1	%	3.9	6.3	12	3.8
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	12	-

Client Sample ID			BH56/3 - 0.7-1.0	BH57/1 - 0-0.2	BH57/3 - 0.8-1.0	BH61/1 - 0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035329	M24-Jn0035330	M24-Jn0035331	M24-Jn0035332
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	73	-	< 20
TRH C15-C28	50	mg/kg	-	2000	-	100
TRH C29-C36	50	mg/kg	-	1100	-	55
TRH C10-C36 (Total)	50	mg/kg	-	3173	-	155
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	180	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	180	-	< 50
TRH >C16-C34	100	mg/kg	-	2700	-	130
TRH >C34-C40	100	mg/kg	-	700	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	3580	-	130
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	57	-	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5

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Client Sample ID			BH56/3 - 0.7-1.0	BH57/1 - 0-0.2	BH57/3 - 0.8-1.0	BH61/1 - 0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035329	M24-Jn0035330	M24-Jn0035331	M24-Jn0035332
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	60	-	111
p-Terphenyl-d14 (surr.)	1	%	-	95	-	70
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.1	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.2	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.2	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

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Client Sample ID			BH56/3 - 0.7-1.0	BH57/1 - 0-0.2	BH57/3 - 0.8-1.0	BH61/1 - 0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035329	M24-Jn0035330	M24-Jn0035331	M24-Jn0035332
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	81	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.9	6.4	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.5	< 0.4
Chromium	5	mg/kg	< 5	18	5.9	< 5
Copper	5	mg/kg	6.0	10	26	5.5
Lead	5	mg/kg	< 5	23	71	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.2	6.8	6.3
Zinc	5	mg/kg	10	120	42	9.6
Sample Properties						
% Moisture	1	%	8.0	6.3	21	4.2
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	67	-	-

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Client Sample ID			BH56/3 - 0.7-1.0	BH57/1 - 0-0.2	BH57/3 - 0.8-1.0	BH61/1 - 0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035329	M24-Jn0035330	M24-Jn0035331	M24-Jn0035332
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.2	-	-
Total PCB*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	81	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	90	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.7	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	12	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.4	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.21	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.31	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.10	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	62	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1^{S02}	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.95	-
Calcium - Peroxide	0.005	% Ca	-	-	24	-
Calcium - Acid Reacted	0.005	% Ca	-	-	23	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	19	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	12000	-

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Client Sample ID			BH56/3 - 0.7-1.0	BH57/1 - 0-0.2	BH57/3 - 0.8-1.0	BH61/1 - 0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035329	M24-Jn0035330	M24-Jn0035331	M24-Jn0035332
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	< 0.005	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.36	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.36	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.47	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	290	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	59	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	19	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	12000	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	160	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-

Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	59	76
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	60	78
p-Terphenyl-d14 (surr.)	1	%	-	-	67	116
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	87	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	77	-
Heavy Metals						
Arsenic	2	mg/kg	9.7	2.6	4.8	3.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	5.2	10	< 5
Copper	5	mg/kg	130	13	15	14
Lead	5	mg/kg	26	13	21	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.6	< 5	7.6	< 5
Zinc	5	mg/kg	130	24	42	17
Sample Properties						
% Moisture	1	%	5.1	10	3.7	9.4
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	78	-	-	-
13C5-PFPeA (surr.)	1	%	92	-	-	-
13C5-PFHxA (surr.)	1	%	101	-	-	-
13C4-PFHpA (surr.)	1	%	88	-	-	-
13C8-PFOA (surr.)	1	%	95	-	-	-
13C5-PFNA (surr.)	1	%	96	-	-	-
13C6-PFDA (surr.)	1	%	98	-	-	-
13C2-PFUnDA (surr.)	1	%	92	-	-	-
13C2-PFDoDA (surr.)	1	%	82	-	-	-
13C2-PFTeDA (surr.)	1	%	97	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	66	-	-	-
D3-N-MeFOSA (surr.)	1	%	100	-	-	-
D5-N-EtFOSA (surr.)	1	%	115	-	-	-
D7-N-MeFOSE (surr.)	1	%	80	-	-	-
D9-N-EtFOSE (surr.)	1	%	78	-	-	-
D5-N-EtFOSAA (surr.)	1	%	124	-	-	-
D3-N-MeFOSAA (surr.)	1	%	112	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	87	-	-	-
18O2-PFHxS (surr.)	1	%	87	-	-	-
13C8-PFOS (surr.)	1	%	76	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	123	-	-	-
13C2-6:2 FTSA (surr.)	1	%	88	-	-	-
13C2-8:2 FTSA (surr.)	1	%	141	-	-	-
13C2-10:2 FTSA (surr.)	1	%	104	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-
Toluene-d8 (surr.)	1	%	-	-	50	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	92	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	87	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	77	-
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	99	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	9.4	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	10	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	7.8	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.14	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.26	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.11	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	69	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.25	-	-
Calcium - Peroxide	0.005	% Ca	-	18	-	-
Calcium - Acid Reacted	0.005	% Ca	-	17	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	14	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	8700	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.037	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.38	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.34	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.45	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	280	-	-

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Client Sample ID			BH63/1 - 0.1-0.3	BH63/3 - 0.7-1.0	BH64/1 - 0-0.3	BH64/2 - 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035333	M24-Jn0035334	M24-Jn0035335	M24-Jn0035336
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	44	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	14	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	8700	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	180	-	-
>2mm Fraction	0.005	g	-	< 0.005	-	-
Analysed Material	0.1	%	-	100	-	-
Extraneous Material	0.1	%	-	< 0.1	-	-

Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	103	-	78	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-

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Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	118	-	67	-
p-Terphenyl-d14 (surr.)	1	%	65	-	97	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-

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Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	112	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.8	-	< 2	3.3
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	10	-	< 5	7.9
Copper	5	mg/kg	12	-	8.8	9.0
Lead	5	mg/kg	17	-	< 5	16
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	9.3	-	< 5	5.3
Zinc	5	mg/kg	41	-	9.1	18
Sample Properties						
% Moisture	1	%	5.3	3.4	11	17
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	-	-
13C4-PFBA (surr.)	1	%	76	81	-	-
13C5-PFPeA (surr.)	1	%	91	93	-	-
13C5-PFHxA (surr.)	1	%	98	104	-	-
13C4-PFHpA (surr.)	1	%	94	94	-	-
13C8-PFOA (surr.)	1	%	88	89	-	-
13C5-PFNA (surr.)	1	%	88	93	-	-
13C6-PFDA (surr.)	1	%	99	99	-	-
13C2-PFUnDA (surr.)	1	%	82	93	-	-
13C2-PFDoDA (surr.)	1	%	78	87	-	-
13C2-PFTeDA (surr.)	1	%	94	94	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	-	-
13C8-FOSA (surr.)	1	%	67	67	-	-
D3-N-MeFOSA (surr.)	1	%	94	95	-	-

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Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	112	104	-	-
D7-N-MeFOSE (surr.)	1	%	82	76	-	-
D9-N-EtFOSE (surr.)	1	%	87	78	-	-
D5-N-EtFOSAA (surr.)	1	%	118	123	-	-
D3-N-MeFOSAA (surr.)	1	%	122	118	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	-	-
13C3-PFBS (surr.)	1	%	80	86	-	-
18O2-PFHxS (surr.)	1	%	84	85	-	-
13C8-PFOS (surr.)	1	%	77	86	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	112	113	-	-
13C2-6:2 FTSA (surr.)	1	%	61	72	-	-
13C2-8:2 FTSA (surr.)	1	%	131	121	-	-
13C2-10:2 FTSA (surr.)	1	%	102	122	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-

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Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	87	-	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	99
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	9.7
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.8
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.42
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.54
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A

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Client Sample ID			BH71/1 - 0-0.2	BH76/1 - 0-0.2	BH76/2 - 0.3-0.5	BH76/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035337	M24-Jn0035339	M24-Jn0035340	M24-Jn0035341
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.12
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	73
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.73
Calcium - Peroxide	0.005	% Ca	-	-	-	15
Calcium - Acid Reacted	0.005	% Ca	-	-	-	14
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	11
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	7000
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.57
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.57
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.75
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	470
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	36
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	11
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	7100
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	130
>2mm Fraction	0.005	g	-	-	-	< 0.005
Analysed Material	0.1	%	-	-	-	100
Extraneous Material	0.1	%	-	-	-	< 0.1

Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-

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Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	71	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	93	-
p-Terphenyl-d14 (surr.)	1	%	-	-	102	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-

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Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	143	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	108	-
Heavy Metals						
Arsenic	2	mg/kg	-	4.1	3.2	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	8.1	21	-
Copper	5	mg/kg	-	11	6.3	-
Iron	20	mg/kg	-	-	4700	-
Lead	5	mg/kg	-	27	13	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	5.8	7.4	-
Zinc	5	mg/kg	-	35	29	-
Sample Properties						
% Moisture	1	%	5.1	9.5	12	5.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	81
13C5-PFPeA (surr.)	1	%	-	-	-	93
13C5-PFHxA (surr.)	1	%	-	-	-	109
13C4-PFHpA (surr.)	1	%	-	-	-	95

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Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	-	-	-	94
13C5-PFNA (surr.)	1	%	-	-	-	101
13C6-PFDA (surr.)	1	%	-	-	-	99
13C2-PFUnDA (surr.)	1	%	-	-	-	92
13C2-PFDoDA (surr.)	1	%	-	-	-	85
13C2-PFTeDA (surr.)	1	%	-	-	-	97
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	69
D3-N-MeFOSA (surr.)	1	%	-	-	-	108
D5-N-EtFOSA (surr.)	1	%	-	-	-	116
D7-N-MeFOSE (surr.)	1	%	-	-	-	92
D9-N-EtFOSE (surr.)	1	%	-	-	-	93
D5-N-EtFOSAA (surr.)	1	%	-	-	-	131
D3-N-MeFOSAA (surr.)	1	%	-	-	-	144
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	89
18O2-PFHxS (surr.)	1	%	-	-	-	93
13C8-PFOS (surr.)	1	%	-	-	-	84
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	107
13C2-6:2 FTSA (surr.)	1	%	-	-	-	69
13C2-8:2 FTSA (surr.)	1	%	-	-	-	141
13C2-10:2 FTSA (surr.)	1	%	-	-	-	118

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Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-

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Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	58	-	-
Toluene-d8 (surr.)	1	%	-	63	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	-	< 2	< 2	-
Demeton-S	0.2	mg/kg	-	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	-	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	-	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	-	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	-	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	-	< 0.2	< 0.2	-
EPN	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	-	< 2	< 2	-
Naled	0.2	mg/kg	-	< 0.2	< 0.2	-
Omethoate	2	mg/kg	-	< 2	< 2	-
Phorate	0.2	mg/kg	-	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	-	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	-	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	-	< 0.2	< 0.2	-

eurofins | Environment Testing

Client Sample ID			BH79/1 - 0-0.2	BH79/2 - 0.4-0.6	BH79/3 - 0.8-1.0	BH80/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035342	M24-Jn0035343	M24-Jn0035344	M24-Jn0035345
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	-	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	62	127	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	143	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	108	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	99	-
% Clay	2.5	%	-	-	4.0	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	1200	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.0	9.2	8.4	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	8.2	-
Total Organic Carbon	0.1	%	-	-	2.5	-
Heavy Metals						
Iron (%)	0.01	%	-	-	0.47	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	30	-

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Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	115	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

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Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	99	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	69	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.5	6.8	-	-
Cadmium	0.4	mg/kg	< 0.4	1.0	-	-
Chromium	5	mg/kg	23	8.6	-	-
Copper	5	mg/kg	14	25	-	-
Lead	5	mg/kg	82	110	-	-
Mercury	0.1	mg/kg	< 0.1	0.1	-	-
Nickel	5	mg/kg	11	9.3	-	-
Zinc	5	mg/kg	83	130	-	-
Sample Properties						
% Moisture	1	%	14	16	5.6	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	78	-
13C5-PFPeA (surr.)	1	%	-	-	89	-
13C5-PFHxA (surr.)	1	%	-	-	99	-
13C4-PFHpA (surr.)	1	%	-	-	91	-
13C8-PFOA (surr.)	1	%	-	-	90	-
13C5-PFNA (surr.)	1	%	-	-	90	-
13C6-PFDA (surr.)	1	%	-	-	99	-
13C2-PFUnDA (surr.)	1	%	-	-	90	-
13C2-PFDoDA (surr.)	1	%	-	-	84	-
13C2-PFTeDA (surr.)	1	%	-	-	92	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	71	-
D3-N-MeFOSA (surr.)	1	%	-	-	102	-

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Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	-	-	107	-
D7-N-MeFOSE (surr.)	1	%	-	-	84	-
D9-N-EtFOSE (surr.)	1	%	-	-	84	-
D5-N-EtFOSAA (surr.)	1	%	-	-	129	-
D3-N-MeFOSAA (surr.)	1	%	-	-	112	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	78	-
18O2-PFHxS (surr.)	1	%	-	-	76	-
13C8-PFOS (surr.)	1	%	-	-	77	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	115	-
13C2-6:2 FTSA (surr.)	1	%	-	-	70	-
13C2-8:2 FTSA (surr.)	1	%	-	-	117	-
13C2-10:2 FTSA (surr.)	1	%	-	-	110	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-

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Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	104	-	78	-
Toluene-d8 (surr.)	1	%	90	-	77	-

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Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	< 2	-	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-	-
Omethoate	2	mg/kg	< 2	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	58	64	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	99	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	69	-	-

eurofins | Environment Testing

Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	100
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.5	12	11	8.8
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	9.7
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.8
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.11
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.17
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.059
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	37
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.25
Calcium - Peroxide	0.005	% Ca	-	-	-	9.7
Calcium - Acid Reacted	0.005	% Ca	-	-	-	9.4
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	7.5
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	4700
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	0.037
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.35
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.32
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.42
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	260
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	26
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	8.4
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	5200

eurofins | Environment Testing

Client Sample ID			BH80/2 - 0.4-0.6	BH80/3 - 0.7-1.0	BH91/1 - 0-0.2	BH91/3 - 0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035346	M24-Jn0035347	M24-Jn0035348	M24-Jn0035349
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	140
>2mm Fraction	0.005	g	-	-	-	< 0.005
Analysed Material	0.1	%	-	-	-	100
Extraneous Material	0.1	%	-	-	-	< 0.1

Client Sample ID			BH94/1 - 0-0.2	BH94/2 - 0.4-0.7	BH94/3 - 0.7-1.0	BH86/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035350	M24-Jn0035351	M24-Jn0035352	M24-Jn0035353
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH94/1 - 0-0.2	BH94/2 - 0.4-0.7	BH94/3 - 0.7-1.0	BH86/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035350	M24-Jn0035351	M24-Jn0035352	M24-Jn0035353
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	61
p-Terphenyl-d14 (surr.)	1	%	-	-	-	73
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	6.4
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	13
Copper	5	mg/kg	-	-	-	13
Lead	5	mg/kg	-	-	-	30
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	9.5
Zinc	5	mg/kg	-	-	-	50
Sample Properties						
% Moisture	1	%	3.7	15	17	6.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	75	-	-	77
13C5-PFPeA (surr.)	1	%	84	-	-	90
13C5-PFHxA (surr.)	1	%	92	-	-	100
13C4-PFHpA (surr.)	1	%	82	-	-	91
13C8-PFOA (surr.)	1	%	79	-	-	88
13C5-PFNA (surr.)	1	%	81	-	-	92
13C6-PFDA (surr.)	1	%	89	-	-	89
13C2-PFUnDA (surr.)	1	%	86	-	-	87

eurofins | Environment Testing

Client Sample ID			BH94/1 - 0-0.2	BH94/2 - 0.4-0.7	BH94/3 - 0.7-1.0	BH86/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035350	M24-Jn0035351	M24-Jn0035352	M24-Jn0035353
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	74	-	-	76
13C2-PFTeDA (surr.)	1	%	83	-	-	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	62	-	-	69
D3-N-MeFOSA (surr.)	1	%	86	-	-	95
D5-N-EtFOSA (surr.)	1	%	92	-	-	106
D7-N-MeFOSE (surr.)	1	%	69	-	-	74
D9-N-EtFOSE (surr.)	1	%	72	-	-	83
D5-N-EtFOSAA (surr.)	1	%	118	-	-	121
D3-N-MeFOSAA (surr.)	1	%	117	-	-	120
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	77	-	-	80
18O2-PFHxS (surr.)	1	%	80	-	-	83
13C8-PFOS (surr.)	1	%	73	-	-	77
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	101	-	-	115
13C2-6:2 FTSA (surr.)	1	%	60	-	-	70
13C2-8:2 FTSA (surr.)	1	%	110	-	-	131
13C2-10:2 FTSA (surr.)	1	%	104	-	-	118

eurofins | Environment Testing

Client Sample ID			BH94/1 - 0-0.2	BH94/2 - 0.4-0.7	BH94/3 - 0.7-1.0	BH86/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035350	M24-Jn0035351	M24-Jn0035352	M24-Jn0035353
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-

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Client Sample ID			BH94/1 - 0-0.2	BH94/2 - 0.4-0.7	BH94/3 - 0.7-1.0	BH86/1 - 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035350	M24-Jn0035351	M24-Jn0035352	M24-Jn0035353
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	62	-	-
Toluene-d8 (surr.)	1	%	-	64	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	110	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	8.8	11	-

Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	53	90	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	64	100	-	-
p-Terphenyl-d14 (surr.)	1	%	76	101	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	71	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	64	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.9	4.0	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	9.7	11	< 5	-
Copper	5	mg/kg	11	11	< 5	-
Iron	20	mg/kg	-	-	1000	-
Lead	5	mg/kg	62	28	< 5	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	7.1	6.6	< 5	-
Zinc	5	mg/kg	37	33	< 5	-
Sample Properties						
% Moisture	1	%	12	8.4	6.5	5.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	74
13C5-PFPeA (surr.)	1	%	-	-	-	89
13C5-PFHxA (surr.)	1	%	-	-	-	98
13C4-PFHpA (surr.)	1	%	-	-	-	91
13C8-PFOA (surr.)	1	%	-	-	-	88
13C5-PFNA (surr.)	1	%	-	-	-	88
13C6-PFDA (surr.)	1	%	-	-	-	88
13C2-PFUnDA (surr.)	1	%	-	-	-	83
13C2-PFDoDA (surr.)	1	%	-	-	-	77
13C2-PFTeDA (surr.)	1	%	-	-	-	89

eurofins | Environment Testing

Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	67
D3-N-MeFOSA (surr.)	1	%	-	-	-	91
D5-N-EtFOSA (surr.)	1	%	-	-	-	106
D7-N-MeFOSE (surr.)	1	%	-	-	-	74
D9-N-EtFOSE (surr.)	1	%	-	-	-	78
D5-N-EtFOSAA (surr.)	1	%	-	-	-	115
D3-N-MeFOSAA (surr.)	1	%	-	-	-	109
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	77
18O2-PFHxS (surr.)	1	%	-	-	-	78
13C8-PFOS (surr.)	1	%	-	-	-	81
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	110
13C2-6:2 FTSA (surr.)	1	%	-	-	-	71
13C2-8:2 FTSA (surr.)	1	%	-	-	-	114
13C2-10:2 FTSA (surr.)	1	%	-	-	-	106
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	53	-	-	-
Toluene-d8 (surr.)	1	%	58	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	75	-	-	-

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	71	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	64	-	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	107	-
% Clay	2.5	%	-	-	2.5	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	300	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.9	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	8.5	-
Total Organic Carbon	0.1	%	-	-	< 0.1	-
Heavy Metals						
Iron (%)	0.01	%	-	-	0.10	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	27	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.9	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	7.7	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.030	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.072	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.042	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	26	-

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Client Sample ID			BH87/2 - 0.2-0.5	BH88/3 - 0.5-0.7	BH88/4 - 0.7-1.0	BH89/1 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035355	M24-Jn0035356	M24-Jn0035357	M24-Jn0035358
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.16	-
Calcium - Peroxide	0.005	% Ca	-	-	8.5	-
Calcium - Acid Reacted	0.005	% Ca	-	-	8.3	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	6.7	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	4200	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.024	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.39	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.36	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.48	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	300	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	23	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	7.5	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	4700	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	180	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-

Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	64	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	53	-	-
p-Terphenyl-d14 (surr.)	1	%	-	73	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	50	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	59	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.7	5.8	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	13	< 5	< 5
Copper	5	mg/kg	21	14	< 5	< 5
Lead	5	mg/kg	21	37	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	9.2	< 5	< 5
Zinc	5	mg/kg	39	43	< 5	< 5
Sample Properties						
% Moisture	1	%	11	10	5.9	5.0
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	64	-	-
Toluene-d8 (surr.)	1	%	-	68	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	52	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	50	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	59	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	107	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	7.5	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	9.8	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	7.7	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.021	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.066	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.045	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	28	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1^{SO2}	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.16	-
Calcium - Peroxide	0.005	% Ca	-	-	9.0	-
Calcium - Acid Reacted	0.005	% Ca	-	-	8.8	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	7.1	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	4400	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.023	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.40	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.37	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.49	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	310	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	26	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	8.3	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	5200	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-

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Client Sample ID			BH89/2 - 0.1-0.3	BH89/3 - 0.5-0.7	BH89/4 - 0.7-1.0	BH90/3 - 0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0035359	M24-Jn0035360	M24-Jn0035361	M24-Jn0035362
Date Sampled			Jun 12, 2024	Jun 12, 2024	Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	-	-	150	-
>2mm Fraction	0.005	g	-	-	< 0.005	-
Analysed Material	0.1	%	-	-	100	-
Extraneous Material	0.1	%	-	-	< 0.1	-

Client Sample ID			DUP07	DUP08
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0035363	M24-Jn0035364
Date Sampled			Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5

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Client Sample ID			DUP07	DUP08
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0035363	M24-Jn0035364
Date Sampled			Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	111
p-Terphenyl-d14 (surr.)	1	%	59	129
Heavy Metals				
Arsenic	2	mg/kg	4.5	4.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	34	10
Copper	5	mg/kg	8.4	15
Lead	5	mg/kg	5.2	19
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	10	5.4
Zinc	5	mg/kg	13	52
Sample Properties				
% Moisture	1	%	3.6	9.0
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-
13C4-PFBA (surr.)	1	%	79	-
13C5-PFPeA (surr.)	1	%	92	-
13C5-PFHxA (surr.)	1	%	108	-
13C4-PFHpA (surr.)	1	%	98	-
13C8-PFOA (surr.)	1	%	94	-
13C5-PFNA (surr.)	1	%	98	-
13C6-PFDA (surr.)	1	%	97	-
13C2-PFUnDA (surr.)	1	%	95	-
13C2-PFDoDA (surr.)	1	%	89	-
13C2-PFTeDA (surr.)	1	%	98	-

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Client Sample ID			DUP07	DUP08
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0035363	M24-Jn0035364
Date Sampled			Jun 12, 2024	Jun 12, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-
13C8-FOSA (surr.)	1	%	73	-
D3-N-MeFOSA (surr.)	1	%	102	-
D5-N-EtFOSA (surr.)	1	%	113	-
D7-N-MeFOSE (surr.)	1	%	85	-
D9-N-EtFOSE (surr.)	1	%	86	-
D5-N-EtFOSAA (surr.)	1	%	141	-
D3-N-MeFOSAA (surr.)	1	%	131	-
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-
13C3-PFBS (surr.)	1	%	86	-
18O2-PFHxS (surr.)	1	%	89	-
13C8-PFOS (surr.)	1	%	77	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-
13C2-4:2 FTSA (surr.)	1	%	120	-
13C2-6:2 FTSA (surr.)	1	%	72	-
13C2-8:2 FTSA (surr.)	1	%	125	-
13C2-10:2 FTSA (surr.)	1	%	129	-
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
NEPM Screen for Soil Classification			
Heavy Metals	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Clay	Brisbane	Jun 19, 2024	14 Days
- Method: LTM-GEN-7040 Percentage clay, silt and sand by Hydrometer			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 15, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 15, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Volatile Organics	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Organotins	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			

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Description	Testing Site	Extracted	Holding Time
Cyanide (total)	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 19, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 19, 2024	6 Week
- Method: LTM-GEN-7050/7070			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780											X		X				
External Laboratory																	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
1	BH51/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035317					X						X		X		X	
2	BH52/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035318	X							X				X				
3	BH52/3 - 0.7	Jun 12, 2024		Soil	M24-Jn0035319												X		X		
4	BH53/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035320								X				X			X	
5	BH53/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035321							X		X	X		X		X		
6	BH54/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035322	X							X				X				
7	BH54/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035323							X		X	X		X		X		
8	BH54/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035324		X		X							X	X	X			X
9	BH92/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035325								X				X				
10	BH55/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035326												X		X		

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
11	BH55/3 - 0.9-1.0	Jun 12, 2024		Soil	M24-Jn0035327				X								X		X			
12	BH56/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035328								X				X					
13	BH56/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035329								X				X					
14	BH57/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035330	X						X		X			X		X			
15	BH57/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035331		X		X				X			X	X					X
16	BH61/1 - 0.05-0.3	Jun 12, 2024		Soil	M24-Jn0035332												X		X			
17	BH63/1 - 0.1-0.3	Jun 12, 2024		Soil	M24-Jn0035333								X				X				X	
18	BH63/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035334		X		X				X			X	X					X
19	BH64/1 - 0-0.3	Jun 12, 2024		Soil	M24-Jn0035335	X						X		X	X		X		X			
20	BH64/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035336												X		X			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
21	BH71/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035337									X			X		X		X	
22	BH72/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035338	X																
23	BH76/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035339	X											X				X	
24	BH76/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035340												X		X			
25	BH76/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035341		X		X				X			X	X					X
26	BH79/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035342	X			X								X					
27	BH79/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035343				X		X		X		X		X					
28	BH79/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035344		X		X			X		X			X	X	X			X
29	BH80/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035345												X				X	
30	BH80/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035346				X		X		X		X		X					
31	BH80/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035347				X			X		X			X			X		

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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
32	BH91/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035348	X			X						X		X				X	
33	BH91/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035349		X		X							X	X					X
34	BH94/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035350	X											X				X	
35	BH94/2 - 0.4-0.7	Jun 12, 2024		Soil	M24-Jn0035351				X						X		X					
36	BH94/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035352		X		X								X					X
37	BH86/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035353												X		X		X	
38	BH87/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035354	X																
39	BH87/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035355							X		X	X		X		X			
40	BH88/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035356												X		X			
41	BH88/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035357		X		X				X			X	X	X				X
42	BH89/1 - 0-0.1	Jun 12, 2024		Soil	M24-Jn0035358												X				X	

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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
43	BH89/2 - 0.1-0.3	Jun 12, 2024		Soil	M24-Jn0035359								X				X					
44	BH89/3 - 0.5-0.7	Jun 12, 2024		Soil	M24-Jn0035360							X		X	X		X		X			
45	BH89/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035361		X		X				X			X	X					X
46	BH90/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035362								X				X					
47	DUP07	Jun 12, 2024		Soil	M24-Jn0035363												X		X		X	
48	DUP08	Jun 12, 2024		Soil	M24-Jn0035364												X		X			
49	BH51/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035367			X														
50	BH51/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035368			X														
51	BH52/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035369			X														
52	BH53/2 - 0.2-	Jun 12, 2024		Soil	M24-Jn0035370			X														

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Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.3																					
53	BH53/4 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035371			X														
54	BH92/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035372			X														
55	BH92/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035373			X														
56	BH55/2 - 0.3-0.6	Jun 12, 2024		Soil	M24-Jn0035374			X														
57	BH56/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035375			X														
58	BH57/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035376			X														
59	BH61/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035377			X														
60	BH61/3 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035378			X														

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Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
61	BH63/2 - 0.4-0.6	Jun 12, 2024		Soil	M24-Jn0035379			X														
62	BH64/3 - 0.7-1.0	Jun 12, 2024		Soil	M24-Jn0035380			X														
63	BH71/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035381			X														
64	BH71/3 - 0.6-1.0	Jun 12, 2024		Soil	M24-Jn0035382			X														
65	BH72/1 B	Jun 12, 2024		Soil	M24-Jn0035383			X														
66	BH72/1 A	Jun 12, 2024		Soil	M24-Jn0035384			X														
67	BH91/2 - 0.3-0.5	Jun 12, 2024		Soil	M24-Jn0035385			X														
68	BH86/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035386			X														
69	BH86/3 - 0.5-0.8	Jun 12, 2024		Soil	M24-Jn0035387			X														
70	BH86/4 - 0.8-	Jun 12, 2024		Soil	M24-Jn0035388			X														

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108012
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 15, 2024 2:02 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Jack Ayers

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X																
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	1.0																					
71	BH87/3 - 0.5-0.8	Jun 12, 2024		Soil	M24-Jn0035389			X														
72	BH87/4 - 0.8-1.0	Jun 12, 2024		Soil	M24-Jn0035390			X														
73	BH88/1 - 0-0.2	Jun 12, 2024		Soil	M24-Jn0035391			X														
74	BH88/2 - 0.2-0.5	Jun 12, 2024		Soil	M24-Jn0035392			X														
75	BH90/1 - 0-0.1	Jun 12, 2024		Soil	M24-Jn0035393			X														
76	BH90/2 - 0.1-0.4	Jun 12, 2024		Soil	M24-Jn0035394			X														
77	DUP09	Jun 12, 2024		Soil	M24-Jn0035395			X														
78	DUP10	Jun 12, 2024		Soil	M24-Jn0035396			X														
Test Counts						10	9	30	16	1	2	8	16	9	9	7	46	3	19	1	11	9

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
PFASs Summations							
Sum (PFHxS + PFOS)*	ug/kg	-			5	N/A	
Sum of US EPA PFAS (PFOS + PFOA)*	ug/kg	-			5	N/A	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/kg	-			5	N/A	
Sum of WA DWER PFAS (n=10)*	ug/kg	-			10	N/A	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Cation Exchange Capacity							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cation Exchange Capacity	meq/100g	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	110			80-120	Pass	
Chromium	%	115			80-120	Pass	
Copper	%	109			80-120	Pass	
Iron	%	109			80-120	Pass	
Lead	%	118			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	105			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	90			70-130	Pass	
TRH C10-C14	%	85			70-130	Pass	
TRH C6-C10	%	88			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	111			70-130	Pass	
LCS - % Recovery							
Heavy Metals							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	%	119			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	107			80-120	Pass	
Iron	%	109			80-120	Pass	
Lead	%	106			80-120	Pass	
Mercury	%	94			80-120	Pass	
Nickel	%	110			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	87			60-140	Pass	
Dibutyltin as Sn	%	105			60-140	Pass	
Monobutyltin as Sn	%	99			60-140	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	99			70-130	Pass	
Total Organic Carbon	%	103			70-130	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	97			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	99			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	82			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	78			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Xylenes - Total*	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	100			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	114			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	77			70-130	Pass	
Benzo(k)fluoranthene	%	89			70-130	Pass	
Chrysene	%	71			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	82			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	74			70-130	Pass	
Phenanthrene	%	79			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	109			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	103			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	104			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	110			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	112			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	120			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	107			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	114			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	114			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	117			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	100			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	113			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	103			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	100			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	98			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	102			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	108			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	63			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	106			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	117			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	104			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	73			70-130	Pass	
TRH C6-C10	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	87			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	
m&p-Xylenes	%	78			70-130	Pass	
Xylenes - Total*	%	78			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	83			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	88			70-130	Pass	
Toluene	%	87			70-130	Pass	
Ethylbenzene	%	88			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	113			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	104			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2-Dichloroethane	%	122			70-130	Pass	
Trichloroethene	%	108			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	73			70-130	Pass	
Acenaphthylene	%	79			70-130	Pass	
Anthracene	%	81			70-130	Pass	
Benz(a)anthracene	%	99			70-130	Pass	
Benzo(a)pyrene	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	%	103			70-130	Pass	
Benzo(g.h.i)perylene	%	90			70-130	Pass	
Benzo(k)fluoranthene	%	78			70-130	Pass	
Chrysene	%	78			70-130	Pass	
Dibenz(a.h)anthracene	%	78			70-130	Pass	
Fluoranthene	%	99			70-130	Pass	
Fluorene	%	103			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	80			70-130	Pass	
Phenanthrene	%	80			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4.4'-DDD	%	92			70-130	Pass	
4.4'-DDE	%	106			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-HCH	%	77			70-130	Pass	
Aldrin	%	78			70-130	Pass	
b-HCH	%	113			70-130	Pass	
d-HCH	%	100			70-130	Pass	
Dieldrin	%	94			70-130	Pass	
Endosulfan I	%	91			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endosulfan sulphate	%	99			70-130	Pass	
Endrin	%	113			70-130	Pass	
Endrin aldehyde	%	94			70-130	Pass	
Endrin ketone	%	90			70-130	Pass	
g-HCH (Lindane)	%	84			70-130	Pass	
Heptachlor	%	101			70-130	Pass	
Heptachlor epoxide	%	102			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	%	90			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	88			70-130	Pass	
Dimethoate	%	100			70-130	Pass	
Ethion	%	90			70-130	Pass	
Fenitrothion	%	84			70-130	Pass	
Methyl parathion	%	78			70-130	Pass	
Mevinphos	%	75			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	96			70-130	Pass	
LCS - % Recovery							
% Clay	%	111			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	101			70-130	Pass	
TRH >C10-C16	%	94			70-130	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	92			60-140	Pass	
Dibutyltin as Sn	%	115			60-140	Pass	
Monobutyltin as Sn	%	89			60-140	Pass	
LCS - % Recovery							
Cyanide (total)	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0037817	NCP	%	104			70-130	Pass	
4.4'-DDD	M24-Jn0037817	NCP	%	114			70-130	Pass	
4.4'-DDE	M24-Jn0037817	NCP	%	100			70-130	Pass	
4.4'-DDT	M24-Jn0037817	NCP	%	92			70-130	Pass	
a-HCH	M24-Jn0037817	NCP	%	100			70-130	Pass	
Aldrin	M24-Jn0037817	NCP	%	84			70-130	Pass	
b-HCH	M24-Jn0037817	NCP	%	86			70-130	Pass	
d-HCH	M24-Jn0037817	NCP	%	96			70-130	Pass	
Dieldrin	M24-Jn0037817	NCP	%	88			70-130	Pass	
Endosulfan I	M24-Jn0037817	NCP	%	103			70-130	Pass	
Endosulfan II	M24-Jn0037817	NCP	%	94			70-130	Pass	
Endosulfan sulphate	M24-Jn0037817	NCP	%	95			70-130	Pass	
Endrin	M24-Jn0037817	NCP	%	95			70-130	Pass	
Endrin aldehyde	M24-Jn0037817	NCP	%	89			70-130	Pass	
Endrin ketone	M24-Jn0037817	NCP	%	91			70-130	Pass	
g-HCH (Lindane)	M24-Jn0037817	NCP	%	90			70-130	Pass	
Heptachlor	M24-Jn0037817	NCP	%	106			70-130	Pass	
Heptachlor epoxide	M24-Jn0037817	NCP	%	114			70-130	Pass	
Hexachlorobenzene	M24-Jn0037817	NCP	%	98			70-130	Pass	
Methoxychlor	M24-Jn0037817	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	M24-Jn0035933	NCP	%	105			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	M24-Jn0035319	CP	%	88			70-130	Pass	
TRH C6-C10	M24-Jn0035319	CP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0035319	CP	%	96			70-130	Pass	
Toluene	M24-Jn0035319	CP	%	99			70-130	Pass	
Ethylbenzene	M24-Jn0035319	CP	%	105			70-130	Pass	
m&p-Xylenes	M24-Jn0035319	CP	%	101			70-130	Pass	
o-Xylene	M24-Jn0035319	CP	%	99			70-130	Pass	
Xylenes - Total*	M24-Jn0035319	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0035319	CP	%	97			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0035320	CP	%	111			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0035320	CP	%	106			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0035320	CP	%	106			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0035320	CP	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0035320	CP	%	102			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0035320	CP	%	109			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0035320	CP	%	116			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0035320	CP	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0035320	CP	%	119			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0035320	CP	%	118			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0035320	CP	%	103			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0035320	CP	%	124			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0035320	CP	%	125			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0035320	CP	%	117			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0035320	CP	%	116			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0035320	CP	%	91			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0035320	CP	%	107			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0035320	CP	%	114			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0035320	CP	%	99			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0035320	CP	%	96			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0035320	CP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0035320	CP	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0035320	CP	%	96			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0035320	CP	%	120			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0035320	CP	%	104			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0035320	CP	%	68			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0035320	CP	%	119			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0035320	CP	%	130			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0035320	CP	%	112			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0035320	CP	%	107			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0035321	CP	%	88			70-130	Pass	
TRH C6-C10	M24-Jn0035321	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0035321	CP	%	74			70-130	Pass	
Toluene	M24-Jn0035321	CP	%	86			70-130	Pass	
Ethylbenzene	M24-Jn0035321	CP	%	76			70-130	Pass	
m&p-Xylenes	M24-Jn0035321	CP	%	90			70-130	Pass	
o-Xylene	M24-Jn0035321	CP	%	71			70-130	Pass	
Xylenes - Total*	M24-Jn0035321	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0035321	CP	%	75			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0035321	CP	%	116			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0035321	CP	%	84			70-130	Pass	
1.2-Dichloroethane	M24-Jn0035321	CP	%	99			70-130	Pass	
Trichloroethene	M24-Jn0035321	CP	%	107			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-Jn0036538	NCP	%	112			70-130	Pass	
Dimethoate	M24-Jn0036538	NCP	%	115			70-130	Pass	
Ethion	M24-Jn0036538	NCP	%	120			70-130	Pass	
Fenitrothion	M24-Jn0036538	NCP	%	99			70-130	Pass	
Methyl parathion	M24-Jn0036538	NCP	%	105			70-130	Pass	
Mevinphos	M24-Jn0036538	NCP	%	123			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0028313	NCP	%	99			70-130	Pass	
Aroclor-1260	M24-Jn0028313	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Cadmium	M24-Jn0035324	CP	%	103			75-125	Pass	
Chromium	M24-Jn0035324	CP	%	103			75-125	Pass	
Copper	M24-Jn0035324	CP	%	99			75-125	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Iron	M24-Jn0038520	NCP	%	124			75-125	Pass	
Mercury	M24-Jn0035324	CP	%	102			75-125	Pass	
Nickel	M24-Jn0035324	CP	%	103			75-125	Pass	
Zinc	M24-Jn0035324	CP	%	98			75-125	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	B24-Jn0025475	NCP	%	75			60-140	Pass	
Dibutyltin as Sn	B24-Jn0025475	NCP	%	112			60-140	Pass	
Monobutyltin as Sn	B24-Jn0025475	NCP	%	85			60-140	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0035332	CP	%	73			70-130	Pass	
Acenaphthylene	M24-Jn0035332	CP	%	78			70-130	Pass	
Anthracene	M24-Jn0035332	CP	%	102			70-130	Pass	
Benz(a)anthracene	M24-Jn0035332	CP	%	124			70-130	Pass	
Benzo(a)pyrene	M24-Jn0035332	CP	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035332	CP	%	80			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0035332	CP	%	79			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0035332	CP	%	92			70-130	Pass	
Chrysene	M24-Jn0035332	CP	%	81			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0035332	CP	%	79			70-130	Pass	
Fluoranthene	M24-Jn0035332	CP	%	89			70-130	Pass	
Fluorene	M24-Jn0035332	CP	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035332	CP	%	85			70-130	Pass	
Naphthalene	M24-Jn0035332	CP	%	88			70-130	Pass	
Phenanthrene	M24-Jn0035332	CP	%	123			70-130	Pass	
Pyrene	M24-Jn0035332	CP	%	110			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0035344	CP	%	84			70-130	Pass	
TRH C6-C10	M24-Jn0035344	CP	%	81			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0035344	CP	%	77			70-130	Pass	
Toluene	M24-Jn0035344	CP	%	81			70-130	Pass	
Ethylbenzene	M24-Jn0035344	CP	%	82			70-130	Pass	
m&p-Xylenes	M24-Jn0035344	CP	%	78			70-130	Pass	
o-Xylene	M24-Jn0035344	CP	%	82			70-130	Pass	
Xylenes - Total*	M24-Jn0035344	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0035344	CP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-Jn0035347	CP	%	85			70-130	Pass	
TRH >C10-C16	M24-Jn0035347	CP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0035353	CP	%	79			75-125	Pass	
Cadmium	M24-Jn0035353	CP	%	98			75-125	Pass	
Chromium	M24-Jn0035353	CP	%	87			75-125	Pass	
Copper	M24-Jn0035353	CP	%	78			75-125	Pass	
Mercury	M24-Jn0035353	CP	%	97			75-125	Pass	
Nickel	M24-Jn0035353	CP	%	76			75-125	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0035363	CP	%	92			70-130	Pass	
Acenaphthylene	M24-Jn0035363	CP	%	115			70-130	Pass	
Anthracene	M24-Jn0035363	CP	%	104			70-130	Pass	
Benz(a)anthracene	M24-Jn0035363	CP	%	93			70-130	Pass	
Benzo(a)pyrene	M24-Jn0035363	CP	%	97			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035363	CP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0035363	CP	%	104			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0035363	CP	%	111			70-130	Pass	
Chrysene	M24-Jn0035363	CP	%	82			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0035363	CP	%	100			70-130	Pass	
Fluoranthene	M24-Jn0035363	CP	%	106			70-130	Pass	
Fluorene	M24-Jn0035363	CP	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035363	CP	%	106			70-130	Pass	
Naphthalene	M24-Jn0035363	CP	%	116			70-130	Pass	
Phenanthrene	M24-Jn0035363	CP	%	110			70-130	Pass	
Pyrene	M24-Jn0035363	CP	%	108			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0035317	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0035317	CP	ug/kg	< 10	< 10	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0035317	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0035317	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0035321	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0035321	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0035321	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0035321	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0035321	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0035321	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0035321	CP	mg/kg	< 0.5	0.6	39	30%	Fail	Q15
Fluorene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0035321	CP	mg/kg	< 0.5	0.7	34	30%	Fail	Q15

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0035321	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-Jn0035321	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0035321	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0035321	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0035321	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tetrachlorvinphos	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0035321	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0035321	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0035324	CP	mg/kg	5.3	5.2	<1	30%	Pass	
Cadmium	M24-Jn0035324	CP	mg/kg	2.8	2.8	1.6	30%	Pass	
Chromium	M24-Jn0035324	CP	mg/kg	6.2	6.3	1.6	30%	Pass	
Copper	M24-Jn0035324	CP	mg/kg	12	12	1.2	30%	Pass	
Iron	M24-Jn0035324	CP	mg/kg	5900	6100	2.8	30%	Pass	
Lead	M24-Jn0035324	CP	mg/kg	390	400	<1	30%	Pass	
Mercury	M24-Jn0035324	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0035324	CP	mg/kg	12	12	<1	30%	Pass	
Zinc	M24-Jn0035324	CP	mg/kg	66	68	2.2	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-Jn0035324	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-Jn0035324	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-Jn0035324	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-Jn0035324	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-Jn0035324	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-Jn0035324	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-Jn0035324	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Clay	M24-Jn0035324	CP	%	5.0	5.0	<1	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M24-Jn0036003	NCP	uS/cm	270	220	21	30%	Pass	
Cyanide (total)	M24-Jn0034697	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0036003	NCP	pH Units	7.6	7.5	pass	30%	Pass	
Total Organic Carbon	S24-Jn0027017	NCP	%	2.1	2.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron (%)	M24-Jn0035324	CP	%	0.59	0.61	2.8	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M24-Jn0036078	NCP	meq/100g	7.3	7.5	1.8	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-Jn0034007	NCP	pH Units	7.0	7.0	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0034007	NCP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0034007	NCP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	

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Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-Jn0034007	NCP	pH Units	2.0	2.0	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-Jn0034007	NCP	% pyrite S	1.8	1.8	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-Jn0034007	NCP	mol H+/t	1100	1100	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-Jn0034007	NCP	mol H+/t	1100	1100	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-Jn0034007	NCP	% pyrite S	1.8	1.8	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-Jn0034007	NCP	% S	0.22	0.22	<1	30%	Pass	
Peroxide Extractable Sulfur	M24-Jn0034007	NCP	% S	2.0	2.1	1.6	20%	Pass	
HCl Extractable Sulfur	M24-Jn0034007	NCP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-Jn0034007	NCP	% S	1.8	1.8	1.7	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-Jn0034007	NCP	mol H+/t	1100	1100	1.7	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-Jn0034007	NCP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-Jn0034007	NCP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-Jn0034007	NCP	% Ca	0.25	0.26	<1	30%	Pass	
Calcium - Peroxide	M24-Jn0034007	NCP	% Ca	0.31	0.33	4.0	20%	Pass	
Calcium - Acid Reacted	M24-Jn0034007	NCP	% Ca	0.060	0.071	18	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-Jn0034007	NCP	% S	0.048	0.057	18	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-Jn0034007	NCP	mol H+/t	30	36	18	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-Jn0034007	NCP	% Mg	0.15	0.15	<1	30%	Pass	
Magnesium - Peroxide	M24-Jn0034007	NCP	% Mg	0.20	0.20	1.9	20%	Pass	
Magnesium - Acid Reacted	M24-Jn0034007	NCP	% Mg	0.044	0.047	6.9	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-Jn0034007	NCP	% S	0.058	0.062	6.9	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-Jn0034007	NCP	mol H+/t	36	39	6.9	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-Jn0034007	NCP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-Jn0034007	NCP	mol H+/t	n/a	n/a	N/A	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-Jn0034007	NCP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-Jn0034007	NCP	mol H+/t	1100	1100	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-Jn0034007	NCP	% S	1.8	1.8	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-Jn0034007	NCP	kg CaCO3/t	85	85	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0035327	CP	%	12	14	8.2	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0035333	CP	mg/kg	9.7	6.2	45	30%	Fail	Q15
Cadmium	M24-Jn0035333	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0035333	CP	mg/kg	13	11	19	30%	Pass	
Lead	M24-Jn0035333	CP	mg/kg	26	17	40	30%	Fail	Q15
Mercury	M24-Jn0035333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0035333	CP	mg/kg	9.6	7.6	23	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0035337	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-Jn0035337	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0035337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0035337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0035337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0035337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0035337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0035337	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0035337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0035337	CP	%	5.3	5.2	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0035340	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-Jn0035340	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0035340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0035340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0035340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0035340	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0035340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0035340	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0035340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0035344	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0035344	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0035344	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0035344	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0035344	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0035344	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(b&j)fluoranthene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0035344	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-Jn0035344	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0035344	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Fenthion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0035344	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0035344	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0035344	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0035344	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0035347	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0035347	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0035347	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0035347	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0035347	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0035347	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	M24-Jn0035347	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
g-HCH (Lindane)	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0035347	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0035347	CP	%	16	21	28	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0035347	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0035347	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0035347	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0035347	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0035347	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

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Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0035348	CP	%	5.6	5.4	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0035351	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-Jn0035351	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0035351	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0035351	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0035351	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0035351	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0035351	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0035351	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dichlorodifluoromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-Jn0035351	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0035353	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-Jn0035353	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0035353	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0035353	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0035353	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0035353	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0035353	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0035353	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0035353	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0035353	CP	mg/kg	6.4	6.4	<1	30%	Pass	
Cadmium	M24-Jn0035353	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0035353	CP	mg/kg	13	14	1.8	30%	Pass	
Copper	M24-Jn0035353	CP	mg/kg	13	13	1.3	30%	Pass	
Iron	M24-Jn0035353	CP	mg/kg	11000	11000	1.8	30%	Pass	
Lead	M24-Jn0035353	CP	mg/kg	30	31	1.0	30%	Pass	
Mercury	M24-Jn0035353	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0035353	CP	mg/kg	9.5	9.6	<1	30%	Pass	
Zinc	M24-Jn0035353	CP	mg/kg	50	51	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Clay	M24-Jn0035357	CP	%	2.5	2.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0035360	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0035360	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0035360	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0035360	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0035360	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0035360	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0035360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0035360	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0035360	CP	%	10	11	6.2	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0035360	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethyl parathion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0035360	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0035360	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0035360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0035360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0035363	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0035363	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0035363	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0035363	CP	ug/kg	< 5	< 5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-Inorganic
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties
Mele Singh	Senior Analyst-Volatile
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

1108473. HC 17/06/24

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CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 6_140624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Ovemight
NAME : Jack Ayers	DATE: 14/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	PAH	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
BH60/1	0.1-0.3		Soil	14/06/2024		1 Jar, 1 PFAS Jar			X	X							X		X						
BH60/2	0.5-0.65		Soil	14/06/2024		1 Jar																			
BH60/3	0.65-1.0		Soil	14/06/2024		1 Jar, 1 SPOCAS bag							X				X								
BH59/1	0.05-0.3		Soil	14/06/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag			X					X			X								
BH59/2	0.4-0.6		Soil	14/06/2024		1 Jar																			
BH59/3	0.7-1.0		Soil	14/06/2024		1 Jar						X			X		X								
BH46/1	0.05-0.3		Soil	14/06/2024		1 Jar, 1 Asbestos bag				X				X			X								
BH46/2	0.4-0.6		Soil	14/06/2024		1 Jar																			
BH46/3	0.9-1.0		Soil	14/06/2024		1 Jar, 1 SPOCAS bag						X	X		X				X				X		
RB_14	-	-	Water	14/06/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
								TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

Jessica Sheppard

From: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Sent: Monday, 17 June 2024 9:36 AM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for soil samples collected today (JBS&G project: 67064 Osborne)
Attachments: Batch 6_COC_140624_Eurofins.xlsx

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

COC attached thanks

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)
If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Friday, June 14, 2024 6:28 PM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected today (JBS&G project: 67064 Osborne)
Importance: High

Hi Amy and Parimal,

Please find attached completed COC for soil samples collected today (14th June). Please note these samples were dropped off by Jack today (along with the first batch of GW samples). Parimal – can you please confirm they have been sent to Melbourne tonight?

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PROJECT INFORMATION

Date Received: 14/6/24

Company: JBS&G

Contact person: Kate Lough

Contact Number: 0433 683 377

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne EIS

Project Number: 67064

COC:
Attached ☐
E-mailed ☑ → KL To email
Not received ☐

Soil + water samples.

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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ABN: 91 05 0159 898

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46-48 Banksia Road
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Site# 2370

Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: Osborne EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 17, 2024 9:36 AM
Eurofins reference 1108473

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Kate Lough
Report	1108473-AID-V2
Project Name	Osborne EIS
Project ID	67064
Received Date	Jun 17, 2024
Date Reported	Jul 02, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name Osborne EIS
Project ID 67064
Date Sampled Jun 14, 2024
Report 1108473-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH59/1_0.05-0.3	24-Jn0039885	Jun 14, 2024	Approximate Sample 313g Sample consisted of: Grey fine-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH46/1_0.05-0.3	24-Jn0039887	Jun 14, 2024	Approximate Sample 346g Sample consisted of: Grey fine-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 17, 2024	Indefinite

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2554

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108473
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254		X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780							X					
External Laboratory												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	BH60/1_0.1-0.3	Jun 14, 2024		Soil	M24-Jn0039883				X	X	X		X			X	
2	BH60/3_0.65-1.0	Jun 14, 2024		Soil	M24-Jn0039884						X	X	X				
3	BH59/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039885	X					X		X			X	
4	BH59/3_0.7-1.0	Jun 14, 2024		Soil	M24-Jn0039886			X			X		X				X
5	BH46/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039887	X			X		X		X				
6	BH46/3_0.9-1.0	Jun 14, 2024		Soil	M24-Jn0039888			X		X		X	X	X			X
7	RB_14	Jun 14, 2024		Water	M24-Jn0039889										X	X	
8	BH60/2_0.5-	Jun 14, 2024		Soil	M24-Jn0039890		X										

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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
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Company Name: JBS & G Australia (SA) P/L
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Project ID: 67064

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Received: Jun 17, 2024 9:36 AM
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Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780												X					
	0.65																
9	BH59/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039891		X										
10	BH46/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039892		X										
Test Counts						2	3	4	2	2	5	2	6	1	1	3	2

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V = r x t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1108473-S-V2**
Project name Osborne EIS
Project ID 67064
Received Date Jun 17, 2024

Client Sample ID			**BH60/1_0.1-0.3**	**BH60/3_0.65-1.0**	**BH59/1_0.05-0.3**	**BH59/3_0.7-1.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M24-Jn0039883**	**M24-Jn0039884**	**M24-Jn0039885**	**M24-Jn0039886**
Date Sampled			**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	70	-	-	-
p-Terphenyl-d14 (surr.)	1	%	100	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-

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Client Sample ID			BH60/1_0.1-0.3	BH60/3_0.65-1.0	BH59/1_0.05-0.3	BH59/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0039883	M24-Jn0039884	M24-Jn0039885	M24-Jn0039886
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	57	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	12	4.5	5.2	< 2
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	12	16	< 5
Copper	5	mg/kg	24	16	21	10
Lead	5	mg/kg	22	< 5	8.2	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	26	13	14	16
Zinc	5	mg/kg	72	8.0	19	< 5
Sample Properties						
% Moisture	1	%	4.9	4.7	7.7	14
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	92	-	109	-

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Client Sample ID			BH60/1_0.1-0.3	BH60/3_0.65-1.0	BH59/1_0.05-0.3	BH59/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0039883	M24-Jn0039884	M24-Jn0039885	M24-Jn0039886
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	113	-	121	-
13C5-PFHxA (surr.)	1	%	128	-	131	-
13C4-PFHpA (surr.)	1	%	115	-	117	-
13C8-PFOA (surr.)	1	%	118	-	120	-
13C5-PFNA (surr.)	1	%	125	-	131	-
13C6-PFDA (surr.)	1	%	133	-	128	-
13C2-PFUnDA (surr.)	1	%	125	-	127	-
13C2-PFDoDA (surr.)	1	%	109	-	111	-
13C2-PFTeDA (surr.)	1	%	122	-	125	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	93	-	93	-
D3-N-MeFOSA (surr.)	1	%	123	-	119	-
D5-N-EtFOSA (surr.)	1	%	109	-	112	-
D7-N-MeFOSE (surr.)	1	%	105	-	105	-
D9-N-EtFOSE (surr.)	1	%	101	-	103	-
D5-N-EtFOSAA (surr.)	1	%	118	-	118	-
D3-N-MeFOSAA (surr.)	1	%	111	-	116	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	124	-	120	-
18O2-PFHxS (surr.)	1	%	102	-	105	-
13C8-PFOS (surr.)	1	%	118	-	110	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	109	-	118	-

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Client Sample ID			BH60/1_0.1-0.3	BH60/3_0.65-1.0	BH59/1_0.05-0.3	BH59/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0039883	M24-Jn0039884	M24-Jn0039885	M24-Jn0039886
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-6:2 FTSA (surr.)	1	%	89	-	102	-
13C2-8:2 FTSA (surr.)	1	%	87	-	91	-
13C2-10:2 FTSA (surr.)	1	%	121	-	120	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.4	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	7.6	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.026	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.072	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.046	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	29	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1^{S02}	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.18	-	-
Calcium - Peroxide	0.005	% Ca	-	25	-	-
Calcium - Acid Reacted	0.005	% Ca	-	25	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	20	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	12000	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.018	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.20	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.19	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.25	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	150	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	60	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	19	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	12000	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-

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Client Sample ID			BH60/1_0.1-0.3	BH60/3_0.65-1.0	BH59/1_0.05-0.3	BH59/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0039883	M24-Jn0039884	M24-Jn0039885	M24-Jn0039886
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	71	-	-
>2mm Fraction	0.005	g	-	110	-	-
Analysed Material	0.1	%	-	39	-	-
Extraneous Material	0.1	%	-	61	-	-
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	98
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	14

Client Sample ID			BH46/1_0.05-0.3	BH46/3_0.9-1.0
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0039887	M24-Jn0039888
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5

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Client Sample ID			BH46/1_0.05-0.3	BH46/3_0.9-1.0
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0039887	M24-Jn0039888
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
2-Fluorobiphenyl (surr.)	1	%	69	74
p-Terphenyl-d14 (surr.)	1	%	129	101
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	-	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2
Coumaphos	2	mg/kg	-	< 2
Demeton-S	0.2	mg/kg	-	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2
EPN	0.2	mg/kg	-	< 0.2
Ethion	0.2	mg/kg	-	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2
Malathion	0.2	mg/kg	-	< 0.2
Merphos	0.2	mg/kg	-	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2
Monocrotophos	2	mg/kg	-	< 2
Naled	0.2	mg/kg	-	< 0.2
Omethoate	2	mg/kg	-	< 2
Phorate	0.2	mg/kg	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	56
Heavy Metals				
Arsenic	2	mg/kg	15	5.8
Cadmium	0.4	mg/kg	< 0.4	0.5
Chromium	5	mg/kg	34	16
Copper	5	mg/kg	27	13
Lead	5	mg/kg	9.3	36
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	24	6.7
Zinc	5	mg/kg	37	30
Sample Properties				
% Moisture	1	%	3.8	12

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Client Sample ID			BH46/1_0.05-0.3	BH46/3_0.9-1.0
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0039887	M24-Jn0039888
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Actual Acidity (NLM-3.2)				
pH-KCL (NLM-3.1)	0.1	pH Units	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003
Potential Acidity - Titratable Peroxide				
pH-OX	0.1	pH Units	-	7.8
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02
Extractable Sulfur				
Sulfur - KCl Extractable	0.005	% S	-	0.20
Peroxide Extractable Sulfur	0.005	% S	-	0.23
HCl Extractable Sulfur	0.005	% S	-	N/A
Potential Acidity (SPOS)				
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.028
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	17
Retained Acidity (S-NAS)				
Net Acid soluble sulfur (s-SNAS) NLM-4.1[SO2]	0.005	% S	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0
Extractable Calcium				
Calcium - KCl Extractable	0.005	% Ca	-	0.51
Calcium - Peroxide	0.005	% Ca	-	12
Calcium - Acid Reacted	0.005	% Ca	-	12
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	9.3
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	5800
Extractable Magnesium				
Magnesium - KCl Extractable	0.005	% Mg	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	0.29
Magnesium - Acid Reacted	0.005	% Mg	-	0.29
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.38
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	240
Acid Neutralising Capacity (ANCE)				
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	29
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	9.4
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	5900
Acid Neutralising Capacity (ANCbt)				
ANC Fineness Factor		factor	-	1.5
Net Acidity (Including ANC)				
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1
Extraneous Material				
<2mm Fraction	0.005	g	-	78
>2mm Fraction	0.005	g	-	30
Analysed Material	0.1	%	-	72
Extraneous Material	0.1	%	-	28

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Client Sample ID			BH46/1_0.05-0.3	BH46/3_0.9-1.0
Sample Matrix			Soil	Soil
Eurofins Sample No.			M24-Jn0039887	M24-Jn0039888
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Organotins				
Tributyltin	1.25	mg/kg	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	< 1.25
Dibutyltin	1	mg/kg	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5
Monobutyltin	0.75	mg/kg	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	96
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	12
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	-	< 20
TRH C10-C14	20	mg/kg	-	< 20
TRH C15-C28	50	mg/kg	-	< 50
TRH C29-C36	50	mg/kg	-	74
TRH C10-C36 (Total)	50	mg/kg	-	74
TRH C6-C10	20	mg/kg	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100
BTEX				
Benzene	0.1	mg/kg	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	128
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	-	< 0.5

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organophosphorus Pesticides	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Organotins	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
% Moisture	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 17, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 21, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 21, 2024	6 Week
- Method: LTM-GEN-7050/7070			

Repeat Samples

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organophosphorus Pesticides	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Organotins	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			

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Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
% Moisture	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 17, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 21, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 21, 2024	6 Week
- Method: LTM-GEN-7050/7070			

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108473
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254		X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780							X					
External Laboratory												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	BH60/1_0.1-0.3	Jun 14, 2024		Soil	M24-Jn0039883				X	X	X		X			X	
2	BH60/3_0.65-1.0	Jun 14, 2024		Soil	M24-Jn0039884						X	X	X				
3	BH59/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039885	X					X		X			X	
4	BH59/3_0.7-1.0	Jun 14, 2024		Soil	M24-Jn0039886			X			X		X				X
5	BH46/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039887	X			X		X		X				
6	BH46/3_0.9-1.0	Jun 14, 2024		Soil	M24-Jn0039888			X		X		X	X	X			X
7	RB_14	Jun 14, 2024		Water	M24-Jn0039889										X	X	
8	BH60/2_0.5-	Jun 14, 2024		Soil	M24-Jn0039890		X										

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Environment Testing NZ Ltd
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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
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Sample Detail						Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780												X					
	0.65																
9	BH59/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039891		X										
10	BH46/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039892		X										
Test Counts						2	3	2	2	2	5	2	6	1	1	3	2

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	112			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	95			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	102			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	116			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	98			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	92			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	93			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	77			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	91			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	92			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	75			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	71			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	82			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	91			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	91			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	91			50-150	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	98			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	99			80-120	Pass	
LCS - % Recovery							
Extractable Sulfur							
HCl Extractable Sulfur	%	105			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	110			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	117			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	80			60-140	Pass	
Dibutyltin as Sn	%	96			60-140	Pass	
Monobutyltin as Sn	%	76			60-140	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	108			70-130	Pass	
Benz(a)anthracene	%	124			70-130	Pass	
Benzo(a)pyrene	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	%	110			70-130	Pass	
Benzo(g.h.i)perylene	%	119			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	111			70-130	Pass	
Fluoranthene	%	126			70-130	Pass	
Fluorene	%	128			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	112			70-130	Pass	
Naphthalene	%	130			70-130	Pass	
Phenanthrene	%	129			70-130	Pass	
Pyrene	%	128			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	122			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate	%	85			70-130	Pass	
Ethion	%	102			70-130	Pass	
Fenitrothion	%	110			70-130	Pass	
Methyl parathion	%	107			70-130	Pass	
Mevinphos	%	87			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	98			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	103			70-130	Pass	
Ethylbenzene	%	92			70-130	Pass	
m&p-Xylenes	%	121			70-130	Pass	
Xylenes - Total*	%	122			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0042721	NCP	%	117			70-130	Pass	
Acenaphthylene	M24-Jn0042721	NCP	%	106			70-130	Pass	
Anthracene	M24-Jn0042721	NCP	%	109			70-130	Pass	
Benz(a)anthracene	M24-Jn0042721	NCP	%	89			70-130	Pass	
Benzo(a)pyrene	M24-Jn0042721	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0042721	NCP	%	107			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0042721	NCP	%	125			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0042721	NCP	%	82			70-130	Pass	
Chrysene	M24-Jn0042721	NCP	%	105			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0042721	NCP	%	96			70-130	Pass	
Fluoranthene	M24-Jn0042721	NCP	%	89			70-130	Pass	
Fluorene	M24-Jn0042721	NCP	%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0042721	NCP	%	95			70-130	Pass	
Naphthalene	M24-Jn0042721	NCP	%	101			70-130	Pass	
Phenanthrene	M24-Jn0042721	NCP	%	89			70-130	Pass	
Pyrene	M24-Jn0042721	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0042726	NCP	%	95			75-125	Pass	
Cadmium	M24-Jn0042726	NCP	%	97			75-125	Pass	
Chromium	M24-Jn0042726	NCP	%	88			75-125	Pass	
Copper	M24-Jn0042726	NCP	%	77			75-125	Pass	
Lead	M24-Jn0042726	NCP	%	96			75-125	Pass	
Mercury	M24-Jn0042726	NCP	%	91			75-125	Pass	
Nickel	M24-Jn0042726	NCP	%	102			75-125	Pass	
Zinc	M24-Jn0045587	NCP	%	89			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluoropentanoic acid (PFPeA)	M24-Jn0046313	NCP	%	81			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0046313	NCP	%	117			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanoic acid (PFHpA)	M24-Jn0046313	NCP	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0046313	NCP	%	99			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0046313	NCP	%	116			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0046313	NCP	%	120			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0046313	NCP	%	124			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0046313	NCP	%	112			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0046313	NCP	%	124			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0046313	NCP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0046313	NCP	%	105			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0046313	NCP	%	103			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0046313	NCP	%	93			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0046313	NCP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0046313	NCP	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0046313	NCP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0046313	NCP	%	96			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0046313	NCP	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0046313	NCP	%	99			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0046313	NCP	%	78			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0046313	NCP	%	85			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0046313	NCP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0046313	NCP	%	92			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0046313	NCP	%	149			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0046313	NCP	%	85			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0046313	NCP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0046313	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0046313	NCP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0046313	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M24-Jn0039888	CP	%	76			60-140	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibutyltin as Sn	M24-Jn0039888	CP	%	99			60-140	Pass	
Monobutyltin as Sn	M24-Jn0039888	CP	%	88			60-140	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0043573	NCP	%	89			70-130	Pass	
TRH C10-C14	M24-Jn0039987	NCP	%	94			70-130	Pass	
TRH C6-C10	M24-Jn0043573	NCP	%	87			70-130	Pass	
TRH >C10-C16	M24-Jn0039987	NCP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0043573	NCP	%	90			70-130	Pass	
Toluene	M24-Jn0043573	NCP	%	90			70-130	Pass	
Ethylbenzene	M24-Jn0043573	NCP	%	88			70-130	Pass	
m&p-Xylenes	M24-Jn0043573	NCP	%	104			70-130	Pass	
o-Xylene	M24-Jn0043573	NCP	%	103			70-130	Pass	
Xylenes - Total*	M24-Jn0043573	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0043573	NCP	%	123			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0043685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0043685	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

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Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethoprop	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0043685	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0043685	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0043685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0035664	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0045790	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0045790	NCP	ug/kg	< 10	< 10	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0035664	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0035664	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0035664	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0045790	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-Jn0039983	NCP	pH Units	7.7	7.9	2.7	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0039983	NCP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0039983	NCP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-Jn0039983	NCP	pH Units	1.9	1.9	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-Jn0039983	NCP	% pyrite S	2.3	2.4	1.9	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-Jn0039983	NCP	mol H+/t	1400	1500	1.9	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-Jn0039983	NCP	mol H+/t	1400	1500	1.9	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-Jn0039983	NCP	% pyrite S	2.3	2.4	1.9	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-Jn0039983	NCP	% S	0.087	0.079	9.0	30%	Pass	
Peroxide Extractable Sulfur	M24-Jn0039983	NCP	% S	2.6	2.7	2.4	20%	Pass	
HCl Extractable Sulfur	M24-Jn0039983	NCP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-Jn0039983	NCP	% S	2.5	2.6	2.8	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-Jn0039983	NCP	mol H+/t	1600	1600	2.8	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-Jn0039983	NCP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-Jn0039983	NCP	mol H+/t	N/A	N/A	N/A	30%	Pass	

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Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-Jn0039983	NCP	% Ca	0.27	0.27	1.5	30%	Pass	
Calcium - Peroxide	M24-Jn0039983	NCP	% Ca	0.32	0.32	<1	20%	Pass	
Calcium - Acid Reacted	M24-Jn0039983	NCP	% Ca	0.047	0.054	13	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-Jn0039983	NCP	% S	0.038	0.043	13	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-Jn0039983	NCP	mol H+/t	24	27	13	30%	Pass	
Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-Jn0039983	NCP	% Mg	0.16	0.16	1.6	30%	Pass	
Magnesium - Peroxide	M24-Jn0039983	NCP	% Mg	0.21	0.21	2.6	20%	Pass	
Magnesium - Acid Reacted	M24-Jn0039983	NCP	% Mg	0.041	0.049	18	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-Jn0039983	NCP	% S	0.054	0.064	18	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-Jn0039983	NCP	mol H+/t	33	40	18	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-Jn0039983	NCP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-Jn0039983	NCP	mol H+/t	n/a	n/a	N/A	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-Jn0039983	NCP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-Jn0039983	NCP	mol H+/t	1500	1500	2.2	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-Jn0039983	NCP	% S	2.4	2.4	2.2	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-Jn0039983	NCP	kg CaCO3/t	110	110	2.2	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-Jn0039886	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-Jn0039886	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-Jn0039886	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-Jn0039886	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-Jn0039886	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-Jn0039886	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-Jn0039886	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0057894	NCP	pH Units	8.1	7.9	pass	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0039887	CP	%	3.8	3.7	2.9	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0039888	CP	mg/kg	5.8	6.1	5.1	30%	Pass	
Cadmium	M24-Jn0039888	CP	mg/kg	0.5	< 0.4	92	30%	Fail	Q15
Chromium	M24-Jn0039888	CP	mg/kg	16	8.0	69	30%	Fail	Q15
Copper	M24-Jn0039888	CP	mg/kg	13	12	11	30%	Pass	
Lead	M24-Jn0039888	CP	mg/kg	36	25	37	30%	Fail	Q15
Mercury	M24-Jn0039888	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0039888	CP	mg/kg	6.7	5.3	24	30%	Pass	
Zinc	M24-Jn0039888	CP	mg/kg	30	25	17	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0043576	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M24-Jn0039725	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0039725	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M24-Jn0043576	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M24-Jn0039725	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0039725	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0039725	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0043576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-Jn0043576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-Jn0043576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0043576	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0043576	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0043576	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0043576	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Comments

This report has been revised (V2) samples M24-Jn0039886 and 24-Jn0039888 pH results have been confirmed. Initial data has been included in report.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Laxman Dias	Senior Analyst-Asbestos
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
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Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1108473-W-V2**
Project name Osborne EIS
Project ID 67064
Received Date Jun 17, 2024

Client Sample ID			**RB_14**
Sample Matrix			**Water**
Eurofins Sample No.			**M24-Jn0039889**
Date Sampled			**Jun 14, 2024**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	104
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

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Client Sample ID			RB_14
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0039889
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	113
13C5-PFPeA (surr.)	1	%	126
13C5-PFHxA (surr.)	1	%	105
13C4-PFHpA (surr.)	1	%	101
13C8-PFOA (surr.)	1	%	115
13C5-PFNA (surr.)	1	%	115
13C6-PFDA (surr.)	1	%	99
13C2-PFUnDA (surr.)	1	%	95
13C2-PFDoDA (surr.)	1	%	76
13C2-PFTeDA (surr.)	1	%	92
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	101
D3-N-MeFOSA (surr.)	1	%	95
D5-N-EtFOSA (surr.)	1	%	99
D7-N-MeFOSE (surr.)	1	%	96
D9-N-EtFOSE (surr.)	1	%	104
D5-N-EtFOSAA (surr.)	1	%	90
D3-N-MeFOSAA (surr.)	1	%	83
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01

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Client Sample ID			RB_14
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0039889
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFSAs)			
13C3-PFBS (surr.)	1	%	107
18O2-PFHxS (surr.)	1	%	94
13C8-PFOS (surr.)	1	%	99
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01
13C2-4:2 FTSA (surr.)	1	%	75
13C2-6:2 FTSA (surr.)	1	%	58
13C2-8:2 FTSA (surr.)	1	%	92
13C2-10:2 FTSA (surr.)	1	%	78
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 18, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 18, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 18, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 17, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108473
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254		X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217	X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780							X					
External Laboratory												

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	BH60/1_0.1-0.3	Jun 14, 2024		Soil	M24-Jn0039883				X	X	X		X			X	
2	BH60/3_0.65-1.0	Jun 14, 2024		Soil	M24-Jn0039884						X	X	X				
3	BH59/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039885	X					X		X			X	
4	BH59/3_0.7-1.0	Jun 14, 2024		Soil	M24-Jn0039886			X			X		X				X
5	BH46/1_0.05-0.3	Jun 14, 2024		Soil	M24-Jn0039887	X			X		X		X				
6	BH46/3_0.9-1.0	Jun 14, 2024		Soil	M24-Jn0039888			X		X		X	X	X			X
7	RB_14	Jun 14, 2024		Water	M24-Jn0039889										X	X	
8	BH60/2_0.5-	Jun 14, 2024		Soil	M24-Jn0039890		X										

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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1108473
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Asbestos - AS4964	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Polycyclic Aromatic Hydrocarbons	Organophosphorus Pesticides	Metals M8	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X											
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780												X					
	0.65																
9	BH59/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039891		X										
10	BH46/2_0.4-0.6	Jun 14, 2024		Soil	M24-Jn0039892		X										
Test Counts						2	3	2	2	2	5	2	6	1	1	3	2

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	113			70-130	Pass	
TRH C10-C14	%	127			70-130	Pass	
TRH C6-C10	%	114			70-130	Pass	
TRH >C10-C16	%	124			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
Xylenes - Total*	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	103			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	108			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	89			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	100			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	68			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	89			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	93			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	88			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	81			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	87			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-Jn0036089	NCP	%	113			70-130	Pass	
TRH >C10-C16	M24-Jn0036089	NCP	%	112			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0052153	NCP	%	97			75-125	Pass	
Cadmium	M24-Jn0052153	NCP	%	93			75-125	Pass	
Chromium	M24-Jn0052153	NCP	%	95			75-125	Pass	
Copper	M24-Jn0052153	NCP	%	86			75-125	Pass	
Lead	M24-Jn0052153	NCP	%	91			75-125	Pass	
Mercury	M24-Jn0052153	NCP	%	90			75-125	Pass	
Nickel	M24-Jn0052153	NCP	%	91			75-125	Pass	
Zinc	M24-Jn0052153	NCP	%	92			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0039198	NCP	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0039198	NCP	%	90			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0039198	NCP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0039198	NCP	%	92			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0039198	NCP	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0039198	NCP	%	90			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0039198	NCP	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0039198	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0039198	NCP	%	78			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0039198	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0039198	NCP	%	95			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0039198	NCP	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0039198	NCP	%	91			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0039198	NCP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0039198	NCP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0039198	NCP	%	95			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0039198	NCP	%	86			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0039198	NCP	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0039198	NCP	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0039198	NCP	%	72			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0039198	NCP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0039198	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0039198	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0039198	NCP	%	94			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0035446	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M24-Jn0036293	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M24-Jn0036293	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C29-C36	M24-Jn0036293	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-Jn0035446	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-Jn0036293	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M24-Jn0036293	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-Jn0036293	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0035446	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-Jn0035446	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-Jn0035446	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-Jn0035446	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-Jn0035446	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-Jn0035446	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0035446	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0052153	NCP	mg/L	0.001	< 0.001	48	30%	Fail	Q15
Cadmium	M24-Jn0052153	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-Jn0052153	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-Jn0052153	NCP	mg/L	0.053	0.052	<1	30%	Pass	
Lead	M24-Jn0052153	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-Jn0052153	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-Jn0052153	NCP	mg/L	0.005	0.005	<1	30%	Pass	
Zinc	M24-Jn0052153	NCP	mg/L	0.007	0.007	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-PFAS
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au

1111027
AZ 24/06/24

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
BH03/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X												Please send SPLIT12 and SPLIT13 to Envirolab for
BH03/2	0.4-0.6	-	Soil	13/06/2024		1 Jar	1											X		X		X	X			analysis with a copy of this COC
BH03/3	0.8-1.0	-	Soil	13/06/2024		1 Jar, 1 ~~SPOCAS bag~~	2					X	X		X		X				X					
BH06/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X											X			X			
BH06/2	0.4-0.6	-	Soil	13/06/2024		1 Jar	1					X			X		X				X					
BH06/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1											X								
BH07/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X													X	X			
BH07/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																			
BH07/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1										X									
BH08/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X												
BH08/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1										X									
BH08/3	0.8-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X						X		X			
BH09/1	0-0.2	-	Soil	13/06/2024		1 Jar	1																			
BH09/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																			
BH09/3	0.5-0.7	-	Soil	13/06/2024		1 Jar	1																			
BH09/4	0.8-1.0	-	Soil	13/06/2024		1 Jar	1										X									
BH10/1	0-0.3	-	Soil	13/06/2024		1 Jar	1																			
BH10/2	0.3-0.45	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X											X		X	X			
BH10/3	0.45-0.5	-	Soil	13/06/2024		1 Jar	1																			
BH12/1	0-0.2	-	Soil	13/06/2024		1 Jar	1																			
BH12/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1											X		X		X	X			
BH12/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																			
BH13/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X																	
BH13/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																X			
BH13/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1				X						X									
BH14/1	0-0.2	-	Soil	13/06/2024		1 Jar	1																			
BH14/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																			
BH14/3	0.7-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X						X					
BH15/1	0-0.3	-	Soil	13/06/2024		1 Jar	1																			
BH15/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																X			
BH15/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																			

CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
BH16/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X											
BH16/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																X		
BH16/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH17/1	0-0.3	-	Soil	13/06/2024		1 Jar	1																		
BH17/2	0.3-0.5	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH17/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH18/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X														X		
BH18/2	0.4-0.6	-	Soil	13/06/2024		1 Jar	1																		
BH18/3	0.6-1.0	-	Soil	13/06/2024		1 Jar	1					X			X		X				X				
BH19/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X											
BH19/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																X		
BH19/3	0.8-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
BH21/1	0-0.2	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X											
BH21/2	0.2-0.5	-	Soil	13/06/2024		1 Jar	1											X				X	X		
BH21/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH22/1	0-0.2	-	Soil	13/06/2024		1 Jar	1										X								
BH22/2	0.2-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH22/3	0.6-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH23/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X																
BH23/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1										X								
BH23/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1															X	X		
BH24/1	0-0.2	-	Soil	13/06/2024		1 Jar	1																		
BH24/2	0.2-0.4	-	Soil	13/06/2024		1 Jar	1										X								
BH24/3	0.6-0.7	-	Soil	13/06/2024		1 Jar	1																		
BH24/4	0.7-0.8	-	Soil	13/06/2024		1 Jar	1																		
BH25/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH25/2	0.3-0.8	-	Soil	13/06/2024		1 Jar	1										X								
BH25/3	0.7-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X			X		X	X	X	X		
BH27/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X																
BH27/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH27/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																		

CHAIN OF CUSTODY DOCUMENTATION

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JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	'NOTES
BH28/1	0-0.3	-	Soil	13/06/2024		1 Jar	1											X		X		X	X		
BH28/2	0.5-0.8	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X	X			X				
BH28/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH30/1	0-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH30/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH30/3	0.6-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X						X		X		
BH50/1	0-0.3	-	Soil	13/06/2024		1 Jar	1										X	X							
BH50/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH50/3	0.7-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X						X				
BH58/1	0.05-0.2	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X																
BH58/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1													X		X	X		
BH58/3	0.7-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X	X			X				
BH62/1	0.05-0.2	-	Soil	13/06/2024		1 Jar	1													X		X	X		
BH62/2	0.3-0.6	-	Soil	13/06/2024		1 Jar	1																		
BH62/3	0.6-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH64/1	0.05-0.3	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X											
BH64/2	0.5-0.8	-	Soil	13/06/2024		1 Jar	1																		
BH64/3	0.8-1.0	-	Soil	13/06/2024		1 Jar	1																		
BH66/1	0.05-0.3	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2		X	X														X	
BH66/2	0.3-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH66/3	0.7-1.0	-	Soil	13/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X	X			X				
BH67/1	0-0.2	-	Soil	13/06/2024		1 Jar	1										X								
BH67/2	0.2-0.5	-	Soil	13/06/2024		1 Jar	1																		
BH67/3	0.7-1.0	-	Soil	13/06/2024		1 Jar	1										X								
BH70/1	0.05-0.2	-	Soil	13/06/2024		1 Jar	1																		
BH70/2	0.2-0.5	-	Soil	13/06/2024		1 Jar, 1 Asbestos bag	2							X									X	X	
BH70/3	0.7-0.8	-	Soil	13/06/2024		1 Jar	1																		
BH70/4	0.8-1.0	-	Soil	13/06/2024		1 Jar	1										X								
DUP11	-	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2																		
DUP12	-	-	Soil	13/06/2024		1 Jar	1																	X	

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY** / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
DUP13	-	-	Soil	13/06/2024		1 Jar	1										X								
SPLIT11	-	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT12	-	-	Soil	13/06/2024		1 Jar	1																X		Please send to Envirolab for analysis
SPLIT13	-	-	Soil	13/06/2024		1 Jar	1										X								Please send to Envirolab for analysis
RB_13	-	-	Water	13/06/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
FB_13	-	-	Water	13/06/2024		1 PFAS	1		X																
								TOTAL	3	1	0	1	1	2	1	0	6	1	0	1	1	2	5	1	

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

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ACN 100 220 479 · ABN 62 100 220 479

84C

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY / METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
DUP13	-	-	Soil	13/06/2024		1 Jar	1										X								
SPLIT11	-	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT12	-	-	Soil	13/06/2024		1 Jar	1																X		Please send to Envirolab for analysis
SPLIT13	-	-	Soil	13/06/2024		1 Jar	1										X								Please send to Envirolab for analysis
RB_13	-	-	Water	13/06/2024		1A, 2V,1 Metals 1 PFAS	5		X																
FB_13	-	-	Water	13/06/2024		1 PFAS	1		X															X	
								TOTAL	3	1	0	1	1	2	1	0	6	1	0	1	1	2	5	1	

1

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PROJECT INFORMATION

Date Received: ~~67064~~ 13/6/24

Company: JBS&G

Contact person: Kate Lough

Contact Number:

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne EIS

Project Number: 67064

COC:
Attached ☐
E-mailed ☑ Kate to email tomorrow
Not received ☐

9.9°C
−0.1°C
9.8°C
on IB

3x Eskies + SPOCAS BAGS (in freezer)

OFFICIAL

FW: Completed COC for soil samples collected yesterday (Thursday, 13th June) for Osborne (67064)

Amy Meunier <Amy.Meunier@eurofinsanz.com>

Mon 24/6/24 5:06 PM

To:#AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>

1 attachments (55 KB)

Batch 5_COC_130624_Eurofins.xlsx;

Kind regards,

Amy Meunier

Analytical Services Manager

Mobile : +61 477 574 867

Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)

If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

---

From: Kate Lough <klough@jbsg.com.au>
Sent: Friday, June 14, 2024 3:35 PM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Completed COC for soil samples collected yesterday (Thursday, 13th June) for Osborne (67064)
Importance: High

Hi Amy and Parimal,

Please find attached completed COC for soil samples collected yesterday (Thursday, 13th June) for Osborne (job 67064). They were dropped off to Parimal yesterday arvo but I'm not sure whether they have been sent to Melbourne yet – Parimal can you please confirm?

Please note SPLIT12 and SPLIT13 are to be sent to Envirolab for analysis with a copy of the COC.

Please ensure samples are extracted / analysed within holding time.

Thanks,

Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G

Kaurna Country | 100 Hutt St, Adelaide, SA

T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

-

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

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www.eurofins.com.au EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2554

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NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: Osborne EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 18, 2024 3:35 PM
Eurofins reference 1111027

Sample Information

✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

✓ All samples have been received as described on the above COC.

✓ COC has been completed correctly.

✓ Attempt to chill was evident.

✓ Appropriately preserved sample containers have been used.

✓ All samples were received in good condition.

✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

✓ Appropriate sample containers have been used.

✓ Sample containers for volatile analysis received with zero headspace.

✓ Split sample sent to requested external lab.

✗ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

EXTRA SAMPLE FB_12 (PFAS WATER) on hold. BH70/2_0.2-0.5 Asbestos Bag rec'd as BH70/1. SPLIT11 missing pfas container

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Kate Lough
Report	1111027-AID
Project Name	Osborne EIS
Project ID	67064
Received Date	Jun 14, 2024
Date Reported	Jun 27, 2024

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

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Project Name Osborne EIS
Project ID 67064
Date Sampled Jun 13, 2024
Report 1111027-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH03/1_0-0.3	24-Jn0060938	Jun 13, 2024	Approximate Sample 250g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH08/1_0-0.3	24-Jn0060946	Jun 13, 2024	Approximate Sample 305g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH16/1_0-0.3	24-Jn0060957	Jun 13, 2024	Approximate Sample 352g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH17/2_0.3-0.5	24-Jn0060959	Jun 13, 2024	Approximate Sample 478g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH19/1_0-0.3	24-Jn0060962	Jun 13, 2024	Approximate Sample 470g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH21/1_0-0.2	24-Jn0060965	Jun 13, 2024	Approximate Sample 304g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH25/1_0-0.3	24-Jn0060972	Jun 13, 2024	Approximate Sample 275g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH30/1_0-0.3	24-Jn0060978	Jun 13, 2024	Approximate Sample 456g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH64/1_0.05-0.3	24-Jn0060986	Jun 13, 2024	Approximate Sample 534g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH70/2_0.2-0.5	24-Jn0060991	Jun 13, 2024	Approximate Sample 376g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 25, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Site# 2554

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH03/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060938		X															
2	BH03/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060939							X		X	X		X		X			
3	BH03/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060940			X		X			X			X	X					X
4	BH06/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060941							X					X		X		X	
5	BH06/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060942			X		X			X				X					X
6	BH06/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060943										X		X					
7	BH07/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060944									X			X		X		X	
8	BH07/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060945								X				X					
9	BH08/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060946		X															

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
10	BH08/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060947								X				X					
11	BH08/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060948			X		X						X	X		X			X
12	BH09/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060949								X				X					
13	BH10/2_0.3-0.45	Jun 13, 2024		Soil	M24-Jn0060950							X		X			X		X		X	
14	BH12/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060951							X		X	X		X		X			
15	BH13/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060952												X				X	
16	BH13/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060953												X		X			
17	BH13/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060954	X							X				X	X				
18	BH14/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060955			X		X						X	X					X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
19	BH15/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060956												X		X			
20	BH16/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060957		X															
21	BH16/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060958												X		X			
22	BH17/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060959		X						X				X					
23	BH18/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060960												X		X		X	
24	BH18/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060961			X		X			X				X					X
25	BH19/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060962		X															
26	BH19/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060963												X		X			
27	BH19/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060964			X		X			X			X	X					X
28	BH21/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060965		X															
29	BH21/2_0.2-	Jun 13, 2024		Soil	M24-Jn0060966									X	X		X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.5																					
30	BH22/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060967								X				X					
31	BH23/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060968												X				X	
32	BH23/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060969								X				X					
33	BH23/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060970									X			X		X			
34	BH24/2_0.2-0.4	Jun 13, 2024		Soil	M24-Jn0060971								X				X					
35	BH25/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060972		X						X				X					
36	BH25/2_0.3-0.8	Jun 13, 2024		Soil	M24-Jn0060973								X				X					
37	BH25/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060974			X		X		X		X	X	X	X		X			X
38	BH27/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060975												X				X	
39	BH28/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060976							X		X	X		X		X			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
40	BH28/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0060977			X		X			X		X	X	X					X
41	BH30/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060978		X						X				X					
42	BH30/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060979			X		X						X	X		X			X
43	BH50/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060980								X		X		X					
44	BH50/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060981			X		X						X	X					X
45	BH58/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060982												X				X	
46	BH58/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060983							X		X			X		X			
47	BH58/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060984			X		X			X		X	X	X					X
48	BH62/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060985							X		X			X		X			
49	BH64/1_0.05-	Jun 13, 2024		Soil	M24-Jn0060986		X															

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.3																					
50	BH66/1_0.05-0.3	Jun 13, 2024		Soil	M24-Jn0060987						X						X		X		X	
51	BH66/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060988			X		X			X		X	X	X					X
52	BH67/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060989								X				X					
53	BH67/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060990								X				X					
54	BH70/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0060991		X							X			X		X			
55	BH70/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060992								X				X					
56	DUP12	Jun 13, 2024		Soil	M24-Jn0060993												X		X			
57	DUP13	Jun 13, 2024		Soil	M24-Jn0060994								X				X					
58	RB_13	Jun 13, 2024		Water	M24-Jn0060995															X	X	
59	FB_13	Jun 13, 2024		Water	M24-Jn0060996																X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
60	BH07/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060997				X													
61	BH09/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060998				X													
62	BH09/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060999				X													
63	BH09/3_0.5-0.7	Jun 13, 2024		Soil	M24-Jn0061000				X													
64	BH10/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061001				X													
65	BH10/3_0.45-0.5	Jun 13, 2024		Soil	M24-Jn0061002				X													
66	BH12/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061003				X													
67	BH12/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061004				X													
68	BH14/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061005				X													
69	BH14/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061006				X													
70	BH15/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061007				X													

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Environment Testing NZ Ltd
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Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

OFFICIAL

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
71	BH15/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061008				X													
72	BH16/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061009				X													
73	BH17/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061010				X													
74	BH17/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061011				X													
75	BH18/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0061012				X													
76	BH21/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061013				X													
77	BH22/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061014				X													
78	BH22/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061015				X													
79	BH24/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061016				X													
80	BH24/3_0.6-	Jun 13, 2024		Soil	M24-Jn0061017				X													

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.7																					
81	BH24/4_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061018				X													
82	BH27/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061019				X													
83	BH27/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061020				X													
84	BH28/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061021				X													
85	BH30/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061022				X													
86	BH50/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061023				X													
87	BH62/2_0.3-0.6	Jun 13, 2024		Soil	M24-Jn0061024				X													
88	BH62/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061025				X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
89	BH64/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0061026				X													
90	BH64/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061027				X													
91	BH66/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061028				X													
92	BH67/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061029				X													
93	BH70/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0061030				X													
94	BH70/3_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061031				X													
95	DUP11	Jun 13, 2024		Soil	M24-Jn0061032				X													
96	FB_12	Jun 13, 2024		Water	M24-Jn0061033				X													
97	SPLIT11	Jun 13, 2024		Soil	M24-Jn0061124				X													
Test Counts						1	10	12	38	16	1	8	23	11	10	10	51	1	21	1	11	12

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Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V = r x t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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Comments

Samples Jn0060938-Jn0060978 & Jn0060991 received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1111027-S**
Project name Osborne EIS
Project ID 67064
Received Date Jun 14, 2024

Client Sample ID			**BH03/2_0.4-0.6**	**BH03/3_0.8-1.0**	**BH06/1_0-0.3**	**BH06/2_0.4-0.6**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M24-Jn0060939**	**M24-Jn0060940**	**M24-Jn0060941**	**M24-Jn0060942**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	100	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	100	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	110	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	110	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	79	-	139	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	79	-	-	-
Toluene-d8 (surr.)	1	%	74	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-

eurofins | Environment Testing

Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	74	-	74	-
p-Terphenyl-d14 (surr.)	1	%	72	-	62	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	109	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	-	-

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Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	71	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	109	-	136	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	120	-

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Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.9	4.6	18	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.5	< 0.4
Chromium	5	mg/kg	7.2	< 5	21	< 5
Copper	5	mg/kg	6.1	8.2	35	13
Lead	5	mg/kg	9.0	< 5	34	7.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.6	27	5.0
Zinc	5	mg/kg	16	< 5	110	9.2
Sample Properties						
% Moisture	1	%	5.6	20	5.4	14
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	< 1.25
Dibutyltin	1	mg/kg	-	< 1	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Monobutyltin	0.75	mg/kg	-	< 0.75	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	109	-	111
Cyanide (total)	5	mg/kg	-	< 5	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	13	-	13
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	13	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	10	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.043	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.13	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.083	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	52	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	4.9	-	-
Calcium - Peroxide	0.005	% Ca	-	34	-	-
Calcium - Acid Reacted	0.005	% Ca	-	29	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	23	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	15000	-	-

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Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	< 0.005	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.25	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.25	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.33	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	210	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	93	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	30	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	19000	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	20	-	-
>2mm Fraction	0.005	g	-	1.7	-	-
Analysed Material	0.1	%	-	92	-	-
Extraneous Material	0.1	%	-	7.6	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	73	-
13C5-PFPeA (surr.)	1	%	-	-	82	-
13C5-PFHxA (surr.)	1	%	-	-	92	-
13C4-PFHpA (surr.)	1	%	-	-	85	-
13C8-PFOA (surr.)	1	%	-	-	87	-
13C5-PFNA (surr.)	1	%	-	-	88	-
13C6-PFDA (surr.)	1	%	-	-	97	-
13C2-PFUnDA (surr.)	1	%	-	-	92	-
13C2-PFDoDA (surr.)	1	%	-	-	101	-
13C2-PFTeDA (surr.)	1	%	-	-	100	-

eurofins | Environment Testing

Client Sample ID			BH03/2_0.4-0.6	BH03/3_0.8-1.0	BH06/1_0-0.3	BH06/2_0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060939	M24-Jn0060940	M24-Jn0060941	M24-Jn0060942
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	73	-
D3-N-MeFOSA (surr.)	1	%	-	-	140	-
D5-N-EtFOSA (surr.)	1	%	-	-	118	-
D7-N-MeFOSE (surr.)	1	%	-	-	98	-
D9-N-EtFOSE (surr.)	1	%	-	-	95	-
D5-N-EtFOSAA (surr.)	1	%	-	-	78	-
D3-N-MeFOSAA (surr.)	1	%	-	-	72	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	80	-
18O2-PFHxS (surr.)	1	%	-	-	82	-
13C8-PFOS (surr.)	1	%	-	-	78	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	95	-
13C2-6:2 FTSA (surr.)	1	%	-	-	125	-
13C2-8:2 FTSA (surr.)	1	%	-	-	113	-
13C2-10:2 FTSA (surr.)	1	%	-	-	112	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

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Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	112	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-

eurofins | Environment Testing

Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	76	-	-	-
Toluene-d8 (surr.)	1	%	75	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	66	-	-
p-Terphenyl-d14 (surr.)	1	%	-	61	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	101	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	131	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-

eurofins | Environment Testing

Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	111	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	9.0	< 2	3.9
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	16	< 5	12
Copper	5	mg/kg	-	21	9.7	15
Lead	5	mg/kg	-	14	< 5	32
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	11	7.9	7.5
Zinc	5	mg/kg	-	50	< 5	65
Sample Properties						
% Moisture	1	%	26	3.4	12	8.4
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	66	-	-
13C5-PFPeA (surr.)	1	%	-	68	-	-
13C5-PFHxA (surr.)	1	%	-	72	-	-
13C4-PFHpA (surr.)	1	%	-	67	-	-
13C8-PFOA (surr.)	1	%	-	62	-	-

eurofins | Environment Testing

Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	-	62	-	-
13C6-PFDA (surr.)	1	%	-	70	-	-
13C2-PFUnDA (surr.)	1	%	-	63	-	-
13C2-PFDoDA (surr.)	1	%	-	66	-	-
13C2-PFTeDA (surr.)	1	%	-	62	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	52	-	-
D3-N-MeFOSA (surr.)	1	%	-	95	-	-
D5-N-EtFOSA (surr.)	1	%	-	79	-	-
D7-N-MeFOSE (surr.)	1	%	-	65	-	-
D9-N-EtFOSE (surr.)	1	%	-	61	-	-
D5-N-EtFOSAA (surr.)	1	%	-	67	-	-
D3-N-MeFOSAA (surr.)	1	%	-	57	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	63	-	-
18O2-PFHxS (surr.)	1	%	-	61	-	-
13C8-PFOS (surr.)	1	%	-	55	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	77	-	-
13C2-6:2 FTSA (surr.)	1	%	-	74	-	-
13C2-8:2 FTSA (surr.)	1	%	-	62	-	-
13C2-10:2 FTSA (surr.)	1	%	-	80	-	-

eurofins | Environment Testing

Client Sample ID			BH06/3_0.7-1.0	BH07/1_0-0.3	BH07/3_0.7-1.0	BH08/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060943	M24-Jn0060944	M24-Jn0060945	M24-Jn0060947
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	210	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	210	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	190	-	< 100	< 100
TRH >C34-C40	100	mg/kg	220	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	410	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	144	-	77	80
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	80
Toluene-d8 (surr.)	1	%	-	-	-	78
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	-	55	62
p-Terphenyl-d14 (surr.)	1	%	124	-	80	86
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	-	120	136
Tetrachloro-m-xylene (surr.)	1	%	-	-	110	78
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Bolstar	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Coumaphos	2	mg/kg	-	-	< 2	< 2
Demeton-S	0.2	mg/kg	-	-	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	-	-	< 0.2	< 0.2
Diazinon	0.2	mg/kg	-	-	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	-	-	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	-	-	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	-	-	< 0.2	< 0.2
EPN	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethion	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	-	-	< 0.2	< 0.2
Fenthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Malathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Merphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	-	-	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Monocrotophos	2	mg/kg	-	-	< 2	< 2
Naled	0.2	mg/kg	-	-	< 0.2	< 0.2
Omethoate	2	mg/kg	-	-	< 2	< 2
Phorate	0.2	mg/kg	-	-	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	-	-	< 0.2	< 0.2
Ronnel	0.2	mg/kg	-	-	< 0.2	< 0.2
Terbufos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	-	-	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	-	-	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	89	115
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	120	136
Tetrachloro-m-xylene (surr.)	1	%	-	-	110	78

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.7	3.0	25	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	10	< 5	14	18
Copper	5	mg/kg	14	13	26	15
Lead	5	mg/kg	86	< 5	50	35
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.3	5.6	14	9.3
Zinc	5	mg/kg	55	9.2	140	48
Sample Properties						
% Moisture	1	%	8.7	11	6.6	7.9
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-	-
Dibutyltin	1	mg/kg	< 1	-	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tripropyltin as Sn (surr.)	1	%	93	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	10	-	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	11	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.0	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.095	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.041	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	< 0.005	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	< 2	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.46	-	-	-
Calcium - Peroxide	0.005	% Ca	2.8	-	-	-
Calcium - Acid Reacted	0.005	% Ca	2.4	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	1.9	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	1200	-	-	-

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	< 0.005	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.18	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.18	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.24	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	150	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	8.0	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	2.6	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	1600	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	17	-	-	-
>2mm Fraction	0.005	g	9.0	-	-	-
Analysed Material	0.1	%	65	-	-	-
Extraneous Material	0.1	%	35	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	103	-
13C5-PFPeA (surr.)	1	%	-	-	84	-
13C5-PFHxA (surr.)	1	%	-	-	88	-
13C4-PFHpA (surr.)	1	%	-	-	83	-
13C8-PFOA (surr.)	1	%	-	-	79	-
13C5-PFNA (surr.)	1	%	-	-	82	-
13C6-PFDA (surr.)	1	%	-	-	87	-
13C2-PFUnDA (surr.)	1	%	-	-	81	-
13C2-PFDoDA (surr.)	1	%	-	-	90	-
13C2-PFTeDA (surr.)	1	%	-	-	98	-

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Client Sample ID			BH08/3_0.8-1.0	BH09/4_0.8-1.0	BH10/2_0.3-0.45	BH12/2_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060948	M24-Jn0060949	M24-Jn0060950	M24-Jn0060951
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	65	-
D3-N-MeFOSA (surr.)	1	%	-	-	131	-
D5-N-EtFOSA (surr.)	1	%	-	-	107	-
D7-N-MeFOSE (surr.)	1	%	-	-	88	-
D9-N-EtFOSE (surr.)	1	%	-	-	84	-
D5-N-EtFOSAA (surr.)	1	%	-	-	88	-
D3-N-MeFOSAA (surr.)	1	%	-	-	70	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	80	-
18O2-PFHxS (surr.)	1	%	-	-	76	-
13C8-PFOS (surr.)	1	%	-	-	70	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	96	-
13C2-6:2 FTSA (surr.)	1	%	-	-	89	-
13C2-8:2 FTSA (surr.)	1	%	-	-	87	-
13C2-10:2 FTSA (surr.)	1	%	-	-	102	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

eurofins | Environment Testing

Client Sample ID			BH13/1_0-0.3	BH13/2_0.3-0.5	BH13/3_0.7-1.0	BH14/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060952	M24-Jn0060953	M24-Jn0060954	M24-Jn0060955
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	73	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	51	-	-
p-Terphenyl-d14 (surr.)	1	%	-	128	-	-

eurofins | Environment Testing

Client Sample ID			BH13/1_0-0.3	BH13/2_0.3-0.5	BH13/3_0.7-1.0	BH14/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060952	M24-Jn0060953	M24-Jn0060954	M24-Jn0060955
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	4.7	< 2	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	12	< 5	-
Copper	5	mg/kg	-	12	< 5	-
Iron	20	mg/kg	-	-	1900	-
Lead	5	mg/kg	-	18	< 5	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	6.9	< 5	-
Zinc	5	mg/kg	-	30	< 5	-
Sample Properties						
% Moisture	1	%	3.3	8.2	9.7	8.1
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	102
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	9.7
% Clay*	2.5	%	-	-	< 2.5	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	4500	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	13	-
Total Organic Carbon	0.1	%	-	-	6.0	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.9
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.11
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.18
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.070
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	43
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0

eurofins | Environment Testing

Client Sample ID			BH13/1_0-0.3	BH13/2_0.3-0.5	BH13/3_0.7-1.0	BH14/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060952	M24-Jn0060953	M24-Jn0060954	M24-Jn0060955
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.47
Calcium - Peroxide	0.005	% Ca	-	-	-	11
Calcium - Acid Reacted	0.005	% Ca	-	-	-	10
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	8.2
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	5100
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.33
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.33
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.44
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	280
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	27
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	8.7
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	5400
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	16
>2mm Fraction	0.005	g	-	-	-	4.4
Analysed Material	0.1	%	-	-	-	78
Extraneous Material	0.1	%	-	-	-	22
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	72	-	-	-
13C5-PFPeA (surr.)	1	%	87	-	-	-
13C5-PFHxA (surr.)	1	%	96	-	-	-
13C4-PFHpA (surr.)	1	%	90	-	-	-
13C8-PFOA (surr.)	1	%	87	-	-	-
13C5-PFNA (surr.)	1	%	90	-	-	-
13C6-PFDA (surr.)	1	%	96	-	-	-
13C2-PFUnDA (surr.)	1	%	97	-	-	-
13C2-PFDoDA (surr.)	1	%	106	-	-	-
13C2-PFTeDA (surr.)	1	%	113	-	-	-

eurofins | Environment Testing

Client Sample ID			BH13/1_0-0.3	BH13/2_0.3-0.5	BH13/3_0.7-1.0	BH14/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060952	M24-Jn0060953	M24-Jn0060954	M24-Jn0060955
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	74	-	-	-
D3-N-MeFOSA (surr.)	1	%	147	-	-	-
D5-N-EtFOSA (surr.)	1	%	117	-	-	-
D7-N-MeFOSE (surr.)	1	%	96	-	-	-
D9-N-EtFOSE (surr.)	1	%	93	-	-	-
D5-N-EtFOSAA (surr.)	1	%	98	-	-	-
D3-N-MeFOSAA (surr.)	1	%	93	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	82	-	-	-
18O2-PFHxS (surr.)	1	%	82	-	-	-
13C8-PFOS (surr.)	1	%	80	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	128	-	-	-
13C2-6:2 FTSA (surr.)	1	%	98	-	-	-
13C2-8:2 FTSA (surr.)	1	%	97	-	-	-
13C2-10:2 FTSA (surr.)	1	%	127	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-
Heavy Metals						
Iron (%)	0.01	%	-	-	0.19	-

eurofins | Environment Testing

Client Sample ID			BH13/1_0-0.3	BH13/2_0.3-0.5	BH13/3_0.7-1.0	BH14/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060952	M24-Jn0060953	M24-Jn0060954	M24-Jn0060955
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Cation Exchange Capacity						
Cation Exchange Capacity	0.5	meq/100g	-	-	360	-

Client Sample ID			BH15/2_0.3-0.5	BH16/2_0.3-0.5	BH17/2_0.3-0.5	BH18/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060956	M24-Jn0060958	M24-Jn0060959	M24-Jn0060960
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	200	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	200	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	180	-	< 100
TRH >C34-C40	100	mg/kg	< 100	190	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	370	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	83	80	-	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

eurofins | Environment Testing

Client Sample ID			BH15/2_0.3-0.5	BH16/2_0.3-0.5	BH17/2_0.3-0.5	BH18/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060956	M24-Jn0060958	M24-Jn0060959	M24-Jn0060960
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	64	-	85
p-Terphenyl-d14 (surr.)	1	%	118	101	-	98
Heavy Metals						
Arsenic	2	mg/kg	3.7	4.2	3.7	3.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.5	12	9.7	9.6
Copper	5	mg/kg	9.4	47	15	10
Lead	5	mg/kg	24	28	31	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.6	7.6	5.1	6.5
Zinc	5	mg/kg	27	47	36	20
Sample Properties						
% Moisture	1	%	7.8	8.9	8.5	8.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	102
13C5-PFPeA (surr.)	1	%	-	-	-	98
13C5-PFHxA (surr.)	1	%	-	-	-	101
13C4-PFHpA (surr.)	1	%	-	-	-	97
13C8-PFOA (surr.)	1	%	-	-	-	94
13C5-PFNA (surr.)	1	%	-	-	-	99
13C6-PFDA (surr.)	1	%	-	-	-	114
13C2-PFUnDA (surr.)	1	%	-	-	-	102
13C2-PFDoDA (surr.)	1	%	-	-	-	104
13C2-PFTeDA (surr.)	1	%	-	-	-	112
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5

eurofins | Environment Testing

Client Sample ID			BH15/2_0.3-0.5	BH16/2_0.3-0.5	BH17/2_0.3-0.5	BH18/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060956	M24-Jn0060958	M24-Jn0060959	M24-Jn0060960
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	71
D3-N-MeFOSA (surr.)	1	%	-	-	-	143
D5-N-EtFOSA (surr.)	1	%	-	-	-	123
D7-N-MeFOSE (surr.)	1	%	-	-	-	98
D9-N-EtFOSE (surr.)	1	%	-	-	-	101
D5-N-EtFOSAA (surr.)	1	%	-	-	-	143
D3-N-MeFOSAA (surr.)	1	%	-	-	-	140
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	88
18O2-PFHxS (surr.)	1	%	-	-	-	87
13C8-PFOS (surr.)	1	%	-	-	-	78
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	112
13C2-6:2 FTSA (surr.)	1	%	-	-	-	109
13C2-8:2 FTSA (surr.)	1	%	-	-	-	140
13C2-10:2 FTSA (surr.)	1	%	-	-	-	120
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

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Client Sample ID			BH18/3_0.6-1.0	BH19/2_0.3-0.5	BH19/3_0.8-1.0	BH21/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060961	M24-Jn0060963	M24-Jn0060964	M24-Jn0060966
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	53	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	53	-	< 50
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	86	-	149
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH18/3_0.6-1.0	BH19/2_0.3-0.5	BH19/3_0.8-1.0	BH21/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060961	M24-Jn0060963	M24-Jn0060964	M24-Jn0060966
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	149
Toluene-d8 (surr.)	1	%	-	-	-	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5

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Client Sample ID			BH18/3_0.6-1.0	BH19/2_0.3-0.5	BH19/3_0.8-1.0	BH21/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060961	M24-Jn0060963	M24-Jn0060964	M24-Jn0060966
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	84	-	76
p-Terphenyl-d14 (surr.)	1	%	-	122	-	66
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	134
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2

eurofins | Environment Testing

Client Sample ID			BH18/3_0.6-1.0	BH19/2_0.3-0.5	BH19/3_0.8-1.0	BH21/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060961	M24-Jn0060963	M24-Jn0060964	M24-Jn0060966
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	81
Heavy Metals						
Arsenic	2	mg/kg	3.8	2.8	2.7	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	20
Copper	5	mg/kg	9.2	6.9	6.8	14
Lead	5	mg/kg	< 5	< 5	< 5	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.7	5.9	5.9	11
Zinc	5	mg/kg	< 5	< 5	< 5	34
Sample Properties						
% Moisture	1	%	18	14	18	9.2
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	103	-	108	-
Cyanide (total)	5	mg/kg	< 5	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	13	-	13	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	13	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-

eurofins | Environment Testing

Client Sample ID			BH18/3_0.6-1.0	BH19/2_0.3-0.5	BH19/3_0.8-1.0	BH21/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060961	M24-Jn0060963	M24-Jn0060964	M24-Jn0060966
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	12	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.022	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.045	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.023	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	14	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	5.0	-
Calcium - Peroxide	0.005	% Ca	-	-	30	-
Calcium - Acid Reacted	0.005	% Ca	-	-	25	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	20	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	12000	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	< 0.005	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.39	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.39	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.52	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	320	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	81	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	26	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	16000	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	21	-
>2mm Fraction	0.005	g	-	-	0.83	-
Analysed Material	0.1	%	-	-	96	-
Extraneous Material	0.1	%	-	-	3.8	-

eurofins | Environment Testing

Client Sample ID			BH22/1_0-0.2	BH23/1_0-0.3	BH23/2_0.3-0.5	BH23/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060967	M24-Jn0060968	M24-Jn0060969	M24-Jn0060970
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	74
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	68
p-Terphenyl-d14 (surr.)	1	%	-	-	-	97

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Client Sample ID			BH22/1_0-0.2	BH23/1_0-0.3	BH23/2_0.3-0.5	BH23/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060967	M24-Jn0060968	M24-Jn0060969	M24-Jn0060970
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	127
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	126
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2

eurofins | Environment Testing

Client Sample ID			BH22/1_0-0.2	BH23/1_0-0.3	BH23/2_0.3-0.5	BH23/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060967	M24-Jn0060968	M24-Jn0060969	M24-Jn0060970
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	98
Heavy Metals						
Arsenic	2	mg/kg	5.0	-	4.8	3.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	9.7	-	14	8.2
Copper	5	mg/kg	16	-	10	10
Lead	5	mg/kg	14	-	20	16
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	7.7	-	8.5	< 5
Zinc	5	mg/kg	34	-	27	25
Sample Properties						
% Moisture	1	%	8.1	5.0	11	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	56	-	-
13C5-PFPeA (surr.)	1	%	-	82	-	-
13C5-PFHxA (surr.)	1	%	-	90	-	-
13C4-PFHpA (surr.)	1	%	-	87	-	-
13C8-PFOA (surr.)	1	%	-	88	-	-
13C5-PFNA (surr.)	1	%	-	83	-	-
13C6-PFDA (surr.)	1	%	-	100	-	-
13C2-PFUnDA (surr.)	1	%	-	94	-	-
13C2-PFDoDA (surr.)	1	%	-	100	-	-
13C2-PFTeDA (surr.)	1	%	-	106	-	-

eurofins | Environment Testing

Client Sample ID			BH22/1_0-0.2	BH23/1_0-0.3	BH23/2_0.3-0.5	BH23/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060967	M24-Jn0060968	M24-Jn0060969	M24-Jn0060970
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	71	-	-
D3-N-MeFOSA (surr.)	1	%	-	134	-	-
D5-N-EtFOSA (surr.)	1	%	-	111	-	-
D7-N-MeFOSE (surr.)	1	%	-	90	-	-
D9-N-EtFOSE (surr.)	1	%	-	90	-	-
D5-N-EtFOSAA (surr.)	1	%	-	101	-	-
D3-N-MeFOSAA (surr.)	1	%	-	97	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	73	-	-
18O2-PFHxS (surr.)	1	%	-	80	-	-
13C8-PFOS (surr.)	1	%	-	72	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	128	-	-
13C2-6:2 FTSA (surr.)	1	%	-	129	-	-
13C2-8:2 FTSA (surr.)	1	%	-	103	-	-
13C2-10:2 FTSA (surr.)	1	%	-	124	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	65
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	65
Toluene-d8 (surr.)	1	%	-	-	-	80
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	127
p-Terphenyl-d14 (surr.)	1	%	-	-	-	58
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	140
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	144
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	117
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	140
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	144
Heavy Metals						
Arsenic	2	mg/kg	6.7	11	4.3	4.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	17	11	12
Copper	5	mg/kg	18	13	12	12
Lead	5	mg/kg	22	15	21	25
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	13	6.0	6.7
Zinc	5	mg/kg	38	48	32	41
Sample Properties						
% Moisture	1	%	13	4.1	9.5	9.6
Organotins						
Tributyltin	1.25	mg/kg	-	-	-	< 1.25
Tributyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tributyltin Oxide	1.25	mg/kg	-	-	-	< 1.25
Dibutyltin	1	mg/kg	-	-	-	< 1

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organotins						
Dibutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Monobutyltin	0.75	mg/kg	-	-	-	< 0.75
Monobutyltin as Sn	0.5	mg/kg	-	-	-	< 0.5
Tripropyltin as Sn (surr.)	1	%	-	-	-	101
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	9.2
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	-	11
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	-	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	-	< 0.003
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	-	7.8
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	-	< 0.02
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	-	< 2
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	-	< 0.02
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	-	0.13
Peroxide Extractable Sulfur	0.005	% S	-	-	-	0.19
HCl Extractable Sulfur	0.005	% S	-	-	-	N/A
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	-	0.061
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	-	38
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	-	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	-	N/A
HCl Extractable Sulfur Correction Factor	1	factor	-	-	-	2.0
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	-	0.50
Calcium - Peroxide	0.005	% Ca	-	-	-	9.4
Calcium - Acid Reacted	0.005	% Ca	-	-	-	8.9
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	7.1
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	4500
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	-	< 0.005
Magnesium - Peroxide	0.005	% Mg	-	-	-	0.42
Magnesium - Acid Reacted	0.005	% Mg	-	-	-	0.42
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	-	0.55
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	-	340
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	-	24
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	-	7.8
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	-	4900
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	-	1.5

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Client Sample ID			BH24/2_0.2-0.4	BH25/1_0-0.3	BH25/2_0.3-0.8	BH25/3_0.7-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060971	M24-Jn0060972	M24-Jn0060973	M24-Jn0060974
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	-	< 10
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	-	< 0.02
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	-	20
>2mm Fraction	0.005	g	-	-	-	4.4
Analysed Material	0.1	%	-	-	-	82
Extraneous Material	0.1	%	-	-	-	18

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-

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Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	74	142	-
Toluene-d8 (surr.)	1	%	-	91	131	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-

eurofins | Environment Testing

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	74	-	-
p-Terphenyl-d14 (surr.)	1	%	-	74	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	141	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	-

eurofins | Environment Testing

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	63	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	141	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	-

eurofins | Environment Testing

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	9.9	5.4	7.9
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	16	17
Copper	5	mg/kg	-	27	19	14
Lead	5	mg/kg	-	21	25	14
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	9.9	11	11
Zinc	5	mg/kg	-	49	61	54
Sample Properties						
% Moisture	1	%	3.5	10	8.9	4.3
Organotins						
Tributyltin	1.25	mg/kg	-	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	-	-	< 1.25	-
Dibutyltin	1	mg/kg	-	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Monobutyltin	0.75	mg/kg	-	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	-	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	-	-	107	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	9.7	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	-	10.0	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	-	8.8	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	-	0.048	-
Peroxide Extractable Sulfur	0.005	% S	-	-	0.087	-
HCl Extractable Sulfur	0.005	% S	-	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	-	0.039	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	-	24	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	-	0.24	-
Calcium - Peroxide	0.005	% Ca	-	-	7.0	-
Calcium - Acid Reacted	0.005	% Ca	-	-	6.7	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	-	5.4	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	3400	-

eurofins | Environment Testing

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	-	0.020	-
Magnesium - Peroxide	0.005	% Mg	-	-	0.46	-
Magnesium - Acid Reacted	0.005	% Mg	-	-	0.44	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	-	0.57	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	-	360	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	-	20	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	-	6.3	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	-	3900	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	18	-
>2mm Fraction	0.005	g	-	-	7.1	-
Analysed Material	0.1	%	-	-	71	-
Extraneous Material	0.1	%	-	-	29	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	62	-	-	-
13C5-PFPeA (surr.)	1	%	89	-	-	-
13C5-PFHxA (surr.)	1	%	100	-	-	-
13C4-PFHpA (surr.)	1	%	101	-	-	-
13C8-PFOA (surr.)	1	%	96	-	-	-
13C5-PFNA (surr.)	1	%	96	-	-	-
13C6-PFDA (surr.)	1	%	104	-	-	-
13C2-PFUnDA (surr.)	1	%	98	-	-	-
13C2-PFDoDA (surr.)	1	%	109	-	-	-
13C2-PFTeDA (surr.)	1	%	113	-	-	-

eurofins | Environment Testing

Client Sample ID			BH27/1_0-0.3	BH28/1_0-0.3	BH28/2_0.5-0.8	BH30/1_0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060975	M24-Jn0060976	M24-Jn0060977	M24-Jn0060978
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	75	-	-	-
D3-N-MeFOSA (surr.)	1	%	148	-	-	-
D5-N-EtFOSA (surr.)	1	%	119	-	-	-
D7-N-MeFOSE (surr.)	1	%	95	-	-	-
D9-N-EtFOSE (surr.)	1	%	104	-	-	-
D5-N-EtFOSAA (surr.)	1	%	100	-	-	-
D3-N-MeFOSAA (surr.)	1	%	105	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	79	-	-	-
18O2-PFHxS (surr.)	1	%	87	-	-	-
13C8-PFOS (surr.)	1	%	81	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	147	-	-	-
13C2-6:2 FTSA (surr.)	1	%	113	-	-	-
13C2-8:2 FTSA (surr.)	1	%	122	-	-	-
13C2-10:2 FTSA (surr.)	1	%	131	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

eurofins | Environment Testing

Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	73	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	70	-	-
Toluene-d8 (surr.)	1	%	-	69	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	78	-	-	-
p-Terphenyl-d14 (surr.)	1	%	101	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.1	4.8	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	26	20	-	-
Copper	5	mg/kg	19	13	-	-
Lead	5	mg/kg	35	14	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	17	9.3	-	-
Zinc	5	mg/kg	52	40	-	-
Sample Properties						
% Moisture	1	%	9.9	8.2	5.7	6.7
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	< 1.25	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	< 1.25	-
Dibutyltin	1	mg/kg	< 1	-	< 1	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Monobutyltin	0.75	mg/kg	< 0.75	-	< 0.75	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	< 0.5	-
Tripropyltin as Sn (surr.)	1	%	108	-	109	-
Cyanide (total)	5	mg/kg	< 5	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.6	-	9.6	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.7	-	9.7	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	< 2	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	< 0.003	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	8.6	-	8.1	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	< 0.02	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	< 2	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	< 2	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	< 0.02	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.061	-	0.14	-
Peroxide Extractable Sulfur	0.005	% S	0.097	-	0.20	-
HCl Extractable Sulfur	0.005	% S	N/A	-	N/A	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.036	-	0.058	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	22	-	36	-

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Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	N/A	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	N/A	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	2.0	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.25	-	0.29	-
Calcium - Peroxide	0.005	% Ca	5.3	-	6.4	-
Calcium - Acid Reacted	0.005	% Ca	5.0	-	6.1	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	4.0	-	4.9	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	2500	-	3100	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.018	-	0.037	-
Magnesium - Peroxide	0.005	% Mg	0.25	-	0.30	-
Magnesium - Acid Reacted	0.005	% Mg	0.23	-	0.26	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.31	-	0.35	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	190	-	220	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	14	-	17	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	4.4	-	5.6	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	2800	-	3500	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	1.5	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	< 10	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	< 0.02	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	16	-	27	-
>2mm Fraction	0.005	g	13	-	< 0.005	-
Analysed Material	0.1	%	55	-	100	-
Extraneous Material	0.1	%	45	-	< 0.1	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	68
13C5-PFPeA (surr.)	1	%	-	-	-	87
13C5-PFHxA (surr.)	1	%	-	-	-	99
13C4-PFHpA (surr.)	1	%	-	-	-	93
13C8-PFOA (surr.)	1	%	-	-	-	94
13C5-PFNA (surr.)	1	%	-	-	-	94

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Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	-	-	-	104
13C2-PFUnDA (surr.)	1	%	-	-	-	104
13C2-PFDoDA (surr.)	1	%	-	-	-	101
13C2-PFTeDA (surr.)	1	%	-	-	-	121
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	80
D3-N-MeFOSA (surr.)	1	%	-	-	-	141
D5-N-EtFOSA (surr.)	1	%	-	-	-	126
D7-N-MeFOSE (surr.)	1	%	-	-	-	94
D9-N-EtFOSE (surr.)	1	%	-	-	-	91
D5-N-EtFOSAA (surr.)	1	%	-	-	-	112
D3-N-MeFOSAA (surr.)	1	%	-	-	-	113
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	85
18O2-PFHxS (surr.)	1	%	-	-	-	84
13C8-PFOS (surr.)	1	%	-	-	-	75
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	109
13C2-6:2 FTSA (surr.)	1	%	-	-	-	126
13C2-8:2 FTSA (surr.)	1	%	-	-	-	120
13C2-10:2 FTSA (surr.)	1	%	-	-	-	147

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Client Sample ID			BH30/3_0.6-1.0	BH50/1_0-0.3	BH50/3_0.7-1.0	BH58/1_0.05-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060979	M24-Jn0060980	M24-Jn0060981	M24-Jn0060982
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	137	-	121	133
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	67	-	-
Toluene-d8 (surr.)	1	%	-	63	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	65	-	69	57
p-Terphenyl-d14 (surr.)	1	%	87	-	67	52
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	0.47
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	0.47
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	0.47
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	134	-	85	78
Tetrachloro-m-xylene (surr.)	1	%	121	-	90	124
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	85	-	68	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	134	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	121	-	90	-

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.2	2.8	4.1	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	5.6	10	17
Copper	5	mg/kg	14	50	12	11
Lead	5	mg/kg	67	23	19	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	< 5	7.5	8.1
Zinc	5	mg/kg	84	40	27	45
Sample Properties						
% Moisture	1	%	14	6.7	8.4	8.1
Organotins						
Tributyltin	1.25	mg/kg	-	< 1.25	-	-
Tributyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tributyltin Oxide	1.25	mg/kg	-	< 1.25	-	-
Dibutyltin	1	mg/kg	-	< 1	-	-
Dibutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Monobutyltin	0.75	mg/kg	-	< 0.75	-	-
Monobutyltin as Sn	0.5	mg/kg	-	< 0.5	-	-
Tripropyltin as Sn (surr.)	1	%	-	97	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	9.6	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	-	9.6	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	-	< 2	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	-	< 0.003	-	-
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	-	7.8	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	-	< 0.02	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	-	< 2	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	-	< 0.02	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	-	0.11	-	-
Peroxide Extractable Sulfur	0.005	% S	-	0.13	-	-
HCl Extractable Sulfur	0.005	% S	-	N/A	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	-	0.024	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	-	15	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	-	N/A	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	-	N/A	-	-
HCl Extractable Sulfur Correction Factor	1	factor	-	2.0	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	-	0.24	-	-
Calcium - Peroxide	0.005	% Ca	-	4.6	-	-
Calcium - Acid Reacted	0.005	% Ca	-	4.3	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	-	3.5	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	2200	-	-

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	-	0.021	-	-
Magnesium - Peroxide	0.005	% Mg	-	0.18	-	-
Magnesium - Acid Reacted	0.005	% Mg	-	0.16	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	-	0.21	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	-	130	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	-	11	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	-	3.6	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	-	2200	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	-	1.5	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	-	< 10	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	-	< 0.02	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	-	< 1	-	-
Extraneous Material						
<2mm Fraction	0.005	g	-	23	-	-
>2mm Fraction	0.005	g	-	< 0.005	-	-
Analysed Material	0.1	%	-	100	-	-
Extraneous Material	0.1	%	-	< 0.1	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	61
13C5-PFPeA (surr.)	1	%	-	-	-	82
13C5-PFHxA (surr.)	1	%	-	-	-	94
13C4-PFHpA (surr.)	1	%	-	-	-	93
13C8-PFOA (surr.)	1	%	-	-	-	92
13C5-PFNA (surr.)	1	%	-	-	-	92
13C6-PFDA (surr.)	1	%	-	-	-	97
13C2-PFUnDA (surr.)	1	%	-	-	-	99
13C2-PFDoDA (surr.)	1	%	-	-	-	105
13C2-PFTeDA (surr.)	1	%	-	-	-	125

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Client Sample ID			BH58/2_0.3-0.5	BH58/3_0.7-1.0	BH62/1_0.05-0.2	BH66/1_0.05-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060983	M24-Jn0060984	M24-Jn0060985	M24-Jn0060987
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	76
D3-N-MeFOSA (surr.)	1	%	-	-	-	130
D5-N-EtFOSA (surr.)	1	%	-	-	-	120
D7-N-MeFOSE (surr.)	1	%	-	-	-	90
D9-N-EtFOSE (surr.)	1	%	-	-	-	90
D5-N-EtFOSAA (surr.)	1	%	-	-	-	115
D3-N-MeFOSAA (surr.)	1	%	-	-	-	105
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	74
18O2-PFHxS (surr.)	1	%	-	-	-	74
13C8-PFOS (surr.)	1	%	-	-	-	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	115
13C2-6:2 FTSA (surr.)	1	%	-	-	-	130
13C2-8:2 FTSA (surr.)	1	%	-	-	-	122
13C2-10:2 FTSA (surr.)	1	%	-	-	-	139
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

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Client Sample ID			BH66/3_0.7-1.0	BH67/1_0-0.2	BH67/3_0.7-1.0	BH70/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060988	M24-Jn0060989	M24-Jn0060990	M24-Jn0060991
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	76
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-

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Client Sample ID			BH66/3_0.7-1.0	BH67/1_0-0.2	BH67/3_0.7-1.0	BH70/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060988	M24-Jn0060989	M24-Jn0060990	M24-Jn0060991
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	139	-	-	-
Toluene-d8 (surr.)	1	%	88	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	1.8
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5

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Client Sample ID			BH66/3_0.7-1.0	BH67/1_0-0.2	BH67/3_0.7-1.0	BH70/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060988	M24-Jn0060989	M24-Jn0060990	M24-Jn0060991
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	0.9
Pyrene	0.5	mg/kg	-	-	-	1.8
Total PAH*	0.5	mg/kg	-	-	-	5.0
2-Fluorobiphenyl (surr.)	1	%	-	-	-	65
p-Terphenyl-d14 (surr.)	1	%	-	-	-	79
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	141
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	141
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2

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Client Sample ID			BH66/3_0.7-1.0	BH67/1_0-0.2	BH67/3_0.7-1.0	BH70/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060988	M24-Jn0060989	M24-Jn0060990	M24-Jn0060991
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	119
Heavy Metals						
Arsenic	2	mg/kg	3.1	6.0	6.1	6.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.4	14	22	25
Copper	5	mg/kg	7.7	13	20	12
Lead	5	mg/kg	24	24	58	34
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	< 5	6.7	9.7	12
Zinc	5	mg/kg	26	58	48	42
Sample Properties						
% Moisture	1	%	7.2	8.9	20	11
Organotins						
Tributyltin	1.25	mg/kg	< 1.25	-	-	-
Tributyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tributyltin Oxide	1.25	mg/kg	< 1.25	-	-	-
Dibutyltin	1	mg/kg	< 1	-	-	-
Dibutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Monobutyltin	0.75	mg/kg	< 0.75	-	-	-
Monobutyltin as Sn	0.5	mg/kg	< 0.5	-	-	-
Tripropyltin as Sn (surr.)	1	%	99	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.9	-	-	-
Actual Acidity (NLM-3.2)						
pH-KCL (NLM-3.1)	0.1	pH Units	9.7	-	-	-
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	-	-	-
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	-	-	-

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Client Sample ID			BH66/3_0.7-1.0	BH67/1_0-0.2	BH67/3_0.7-1.0	BH70/2_0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060988	M24-Jn0060989	M24-Jn0060990	M24-Jn0060991
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Potential Acidity - Titratable Peroxide						
pH-OX	0.1	pH Units	7.8	-	-	-
Titratable Peroxide Acidity (s-TPA)	0.02	% pyrite S	< 0.02	-	-	-
Titratable Peroxide Acidity (a-TPA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (a-TSA)	2	mol H+/t	< 2	-	-	-
Titratable Sulfidic Acidity (s-TSA)	0.02	% pyrite S	< 0.02	-	-	-
Extractable Sulfur						
Sulfur - KCl Extractable	0.005	% S	0.091	-	-	-
Peroxide Extractable Sulfur	0.005	% S	0.16	-	-	-
HCl Extractable Sulfur	0.005	% S	N/A	-	-	-
Potential Acidity (SPOS)						
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	0.005	% S	0.072	-	-	-
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	2	mol H+/t	45	-	-	-
Retained Acidity (S-NAS)						
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	-	-	-
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
Extractable Calcium						
Calcium - KCl Extractable	0.005	% Ca	0.26	-	-	-
Calcium - Peroxide	0.005	% Ca	9.1	-	-	-
Calcium - Acid Reacted	0.005	% Ca	8.8	-	-	-
Calcium - Acid Reacted (s-aCa)	0.005	% S	7.0	-	-	-
Calcium - Acid Reacted (a-aCa)	0.005	mol H+/t	4400	-	-	-
Extractable Magnesium						
Magnesium - KCl Extractable	0.005	% Mg	0.037	-	-	-
Magnesium - Peroxide	0.005	% Mg	0.32	-	-	-
Magnesium - Acid Reacted	0.005	% Mg	0.29	-	-	-
Magnesium - Acid Reacted (s-aCa)	0.005	% S	0.38	-	-	-
Magnesium - Acid Reacted (a-aCa)	0.005	mol H+/t	240	-	-	-
Acid Neutralising Capacity (ANCE)						
Acid Neutralising Capacity - (ANCE)	0.02	% CaCO3	27	-	-	-
Acid Neutralising Capacity - (s-ANCE)	0.02	% S	8.7	-	-	-
Acid Neutralising Capacity - (a-ANCE)	10	mol H+/t	5400	-	-	-
Acid Neutralising Capacity (ANCbt)						
ANC Fineness Factor		factor	1.5	-	-	-
Net Acidity (Including ANC)						
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Liming rate - ASSMAC	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	28	-	-	-
>2mm Fraction	0.005	g	< 0.005	-	-	-
Analysed Material	0.1	%	100	-	-	-
Extraneous Material	0.1	%	< 0.1	-	-	-

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Client Sample ID			BH70/4_0.8-1.0	DUP12	DUP13
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060992	M24-Jn0060993	M24-Jn0060994
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	-	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-
BTEX					
Benzene	0.1	mg/kg	-	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	62	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	82	-
p-Terphenyl-d14 (surr.)	1	%	-	112	-

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Client Sample ID			BH70/4_0.8-1.0	DUP12	DUP13
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-Jn0060992	M24-Jn0060993	M24-Jn0060994
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	3.6	4.6	3.9
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	17	11
Copper	5	mg/kg	< 5	16	11
Lead	5	mg/kg	25	29	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	11	7.1
Zinc	5	mg/kg	25	45	37
Sample Properties					
% Moisture	1	%	14	8.4	7.8

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Melbourne	Jun 25, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Organotins	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Cyanide (total)	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Jun 25, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
% Clay*	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-GEN-7040 Percentage clay, silt and sand by Hydrometer			
Eurofins Suite B7			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jun 25, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
NEPM Screen for Soil Classification			
Heavy Metals	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Jun 25, 2024	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Jun 25, 2024	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 24, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Jun 26, 2024	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Jun 26, 2024	6 Week
- Method: LTM-GEN-7050/7070			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 25, 2024	28 Days

Description	Testing Site	Extracted	Holding Time
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 25, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 24, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH03/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060938		X															
2	BH03/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060939							X		X	X		X		X			
3	BH03/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060940			X		X			X			X	X					X
4	BH06/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060941							X					X		X		X	
5	BH06/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060942			X		X			X				X					X
6	BH06/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060943										X		X					
7	BH07/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060944									X			X		X		X	
8	BH07/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060945								X				X					
9	BH08/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060946		X															

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
10	BH08/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060947								X				X					
11	BH08/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060948			X		X						X	X		X			X
12	BH09/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060949								X				X					
13	BH10/2_0.3-0.45	Jun 13, 2024		Soil	M24-Jn0060950							X		X			X		X		X	
14	BH12/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060951							X		X	X		X		X			
15	BH13/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060952												X				X	
16	BH13/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060953												X		X			
17	BH13/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060954	X							X				X	X				
18	BH14/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060955			X		X						X	X					X

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Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
19	BH15/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060956												X		X			
20	BH16/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060957		X															
21	BH16/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060958												X		X			
22	BH17/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060959		X						X				X					
23	BH18/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060960												X		X		X	
24	BH18/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060961			X		X			X				X					X
25	BH19/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060962		X															
26	BH19/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060963												X		X			
27	BH19/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060964			X		X			X			X	X					X
28	BH21/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060965		X															
29	BH21/2_0.2-	Jun 13, 2024		Soil	M24-Jn0060966									X	X		X		X			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.5																					
30	BH22/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060967								X				X					
31	BH23/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060968												X				X	
32	BH23/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060969								X				X					
33	BH23/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060970									X			X		X			
34	BH24/2_0.2-0.4	Jun 13, 2024		Soil	M24-Jn0060971								X				X					
35	BH25/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060972		X						X				X					
36	BH25/2_0.3-0.8	Jun 13, 2024		Soil	M24-Jn0060973								X				X					
37	BH25/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060974			X		X		X		X	X	X	X		X			X
38	BH27/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060975												X				X	
39	BH28/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060976							X		X	X		X		X			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
40	BH28/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0060977			X		X			X		X	X	X					X
41	BH30/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060978		X						X				X					
42	BH30/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060979			X		X						X	X		X			X
43	BH50/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060980								X		X		X					
44	BH50/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060981			X		X						X	X					X
45	BH58/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060982												X				X	
46	BH58/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060983							X		X			X		X			
47	BH58/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060984			X		X			X		X	X	X					X
48	BH62/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060985							X		X			X		X			
49	BH64/1_0.05-	Jun 13, 2024		Soil	M24-Jn0060986		X															

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Fax: 08 8431 7115

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.3																					
50	BH66/1_0.05-0.3	Jun 13, 2024		Soil	M24-Jn0060987						X						X		X		X	
51	BH66/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060988			X		X			X		X	X	X					X
52	BH67/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060989								X				X					
53	BH67/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060990								X				X					
54	BH70/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0060991		X							X			X		X			
55	BH70/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060992								X				X					
56	DUP12	Jun 13, 2024		Soil	M24-Jn0060993												X		X			
57	DUP13	Jun 13, 2024		Soil	M24-Jn0060994								X				X					
58	RB_13	Jun 13, 2024		Water	M24-Jn0060995															X	X	
59	FB_13	Jun 13, 2024		Water	M24-Jn0060996																X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
60	BH07/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060997				X													
61	BH09/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060998				X													
62	BH09/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060999				X													
63	BH09/3_0.5-0.7	Jun 13, 2024		Soil	M24-Jn0061000				X													
64	BH10/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061001				X													
65	BH10/3_0.45-0.5	Jun 13, 2024		Soil	M24-Jn0061002				X													
66	BH12/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061003				X													
67	BH12/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061004				X													
68	BH14/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061005				X													
69	BH14/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061006				X													
70	BH15/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061007				X													

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
71	BH15/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061008				X													
72	BH16/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061009				X													
73	BH17/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061010				X													
74	BH17/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061011				X													
75	BH18/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0061012				X													
76	BH21/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061013				X													
77	BH22/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061014				X													
78	BH22/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061015				X													
79	BH24/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061016				X													
80	BH24/3_0.6-	Jun 13, 2024		Soil	M24-Jn0061017				X													

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Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.7																					
81	BH24/4_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061018				X													
82	BH27/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061019				X													
83	BH27/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061020				X													
84	BH28/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061021				X													
85	BH30/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061022				X													
86	BH50/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061023				X													
87	BH62/2_0.3-0.6	Jun 13, 2024		Soil	M24-Jn0061024				X													
88	BH62/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061025				X													

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Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
89	BH64/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0061026				X													
90	BH64/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061027				X													
91	BH66/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061028				X													
92	BH67/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061029				X													
93	BH70/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0061030				X													
94	BH70/3_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061031				X													
95	DUP11	Jun 13, 2024		Soil	M24-Jn0061032				X													
96	FB_12	Jun 13, 2024		Water	M24-Jn0061033				X													
97	SPLIT11	Jun 13, 2024		Soil	M24-Jn0061124				X													
Test Counts						1	10	12	38	16	1	8	23	11	10	10	51	1	21	1	11	12

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Cyanide (total)	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
% Clay*	%	< 2.5			2.5	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organotins							
Tributyltin	mg/kg	< 1.25			1.25	Pass	
Tributyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Tributyltin Oxide	mg/kg	< 1.25			1.25	Pass	
Dibutyltin	mg/kg	< 1			1	Pass	
Dibutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Monobutyltin	mg/kg	< 0.75			0.75	Pass	
Monobutyltin as Sn	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	110			70-130	Pass	
TRH C6-C10	%	106			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	79			70-130	Pass	
Toluene	%	85			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	82			70-130	Pass	
1.2-Dichlorobenzene	%	89			70-130	Pass	
1.2-Dichloroethane	%	78			70-130	Pass	
Trichloroethene	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	123			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	113			70-130	Pass	
4.4'-DDE	%	108			70-130	Pass	
4.4'-DDT	%	108			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	94			70-130	Pass	
b-HCH	%	102			70-130	Pass	
d-HCH	%	108			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	113			70-130	Pass	
Endosulfan II	%	106			70-130	Pass	
Endosulfan sulphate	%	106			70-130	Pass	
Endrin	%	101			70-130	Pass	
Endrin aldehyde	%	78			70-130	Pass	
Endrin ketone	%	104			70-130	Pass	
g-HCH (Lindane)	%	95			70-130	Pass	
Heptachlor	%	109			70-130	Pass	
Heptachlor epoxide	%	83			70-130	Pass	
Hexachlorobenzene	%	94			70-130	Pass	
Methoxychlor	%	108			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	98			70-130	Pass	
Dimethoate	%	94			70-130	Pass	
Ethion	%	70			70-130	Pass	
Fenitrothion	%	115			70-130	Pass	
Methyl parathion	%	71			70-130	Pass	
Mevinphos	%	80			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	119			70-130	Pass	
LCS - % Recovery							
Cyanide (total)	%	97			70-130	Pass	
LCS - % Recovery							
Actual Acidity (NLM-3.2)							
pH-KCL (NLM-3.1)	%	97			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)	%	97			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	105			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	105			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	108			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanoic acid (PFOA)	%	113			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	111			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	119			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	117			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	115			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	119			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	111			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	132			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	106			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	87			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	109			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	103			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	108			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	100			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	101			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	64			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	97			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	94			70-130	Pass	
TRH >C10-C16	%	84			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	102			70-130	Pass	
Total Organic Carbon	%	110			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	107			80-120	Pass	
Cadmium	%	108			80-120	Pass	
Chromium	%	110			80-120	Pass	
Copper	%	104			80-120	Pass	
Iron	%	111			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	102			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	101			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	116			80-120	Pass	
Cadmium	%	114			80-120	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	%	119			80-120	Pass	
Copper	%	118			80-120	Pass	
Iron	%	117			80-120	Pass	
Lead	%	115			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	114			80-120	Pass	
Zinc	%	114			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	110			80-120	Pass	
Copper	%	100			80-120	Pass	
Iron	%	110			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	103			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	101			80-120	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	101			60-140	Pass	
Dibutyltin as Sn	%	125			60-140	Pass	
Monobutyltin as Sn	%	94			60-140	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	75			70-130	Pass	
Anthracene	%	104			70-130	Pass	
Benz(a)anthracene	%	82			70-130	Pass	
Benzo(a)pyrene	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g.h.i)perylene	%	76			70-130	Pass	
Benzo(k)fluoranthene	%	86			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	84			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	76			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	74			70-130	Pass	
Phenanthrene	%	102			70-130	Pass	
Pyrene	%	75			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0057985	NCP	%	117			70-130	Pass	
TRH C10-C14	M24-Jn0052329	NCP	%	81			70-130	Pass	
TRH C6-C10	M24-Jn0057985	NCP	%	113			70-130	Pass	
TRH >C10-C16	M24-Jn0052329	NCP	%	72			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0057985	NCP	%	86			70-130	Pass	
Toluene	M24-Jn0057985	NCP	%	91			70-130	Pass	
Ethylbenzene	M24-Jn0057985	NCP	%	97			70-130	Pass	
m&p-Xylenes	M24-Jn0057985	NCP	%	99			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	M24-Jn0057985	NCP	%	97			70-130	Pass	
Xylenes - Total*	M24-Jn0057985	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0057985	NCP	%	99			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0057985	NCP	%	89			70-130	Pass	
1.2-Dichloroethane	M24-Jn0057985	NCP	%	82			70-130	Pass	
Trichloroethene	M24-Jn0057985	NCP	%	112			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0057985	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0052329	NCP	%	96			70-130	Pass	
4.4'-DDD	M24-Jn0052329	NCP	%	106			70-130	Pass	
4.4'-DDE	M24-Jn0052329	NCP	%	99			70-130	Pass	
4.4'-DDT	M24-Jn0052329	NCP	%	86			70-130	Pass	
a-HCH	M24-Jn0052329	NCP	%	98			70-130	Pass	
Aldrin	M24-Jn0052329	NCP	%	99			70-130	Pass	
b-HCH	M24-Jn0052329	NCP	%	98			70-130	Pass	
d-HCH	M24-Jn0052329	NCP	%	97			70-130	Pass	
Dieldrin	M24-Jn0052329	NCP	%	99			70-130	Pass	
Endosulfan I	M24-Jn0052329	NCP	%	109			70-130	Pass	
Endosulfan II	M24-Jn0052329	NCP	%	103			70-130	Pass	
Endosulfan sulphate	M24-Jn0052329	NCP	%	102			70-130	Pass	
Endrin	M24-Jn0052329	NCP	%	101			70-130	Pass	
Endrin aldehyde	M24-Jn0052329	NCP	%	112			70-130	Pass	
Endrin ketone	M24-Jn0052329	NCP	%	104			70-130	Pass	
g-HCH (Lindane)	M24-Jn0052329	NCP	%	95			70-130	Pass	
Heptachlor	M24-Jn0052329	NCP	%	94			70-130	Pass	
Heptachlor epoxide	M24-Jn0052329	NCP	%	92			70-130	Pass	
Hexachlorobenzene	M24-Jn0052329	NCP	%	96			70-130	Pass	
Methoxychlor	M24-Jn0052329	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0057761	NCP	%	124			70-130	Pass	
Aroclor-1260	M24-Jn0057761	NCP	%	118			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Copper	M24-Jn0058836	NCP	%	104			75-125	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M24-Jn0061307	NCP	%	112			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0053396	NCP	%	103			70-130	Pass	
Acenaphthylene	M24-Jn0053396	NCP	%	118			70-130	Pass	
Anthracene	M24-Jn0053396	NCP	%	104			70-130	Pass	
Benz(a)anthracene	M24-Jn0053396	NCP	%	102			70-130	Pass	
Benzo(a)pyrene	M24-Jn0053396	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0053396	NCP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0053396	NCP	%	71			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0053396	NCP	%	114			70-130	Pass	
Chrysene	M24-Jn0053396	NCP	%	113			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a.h)anthracene	M24-Jn0053396	NCP	%	120			70-130	Pass	
Fluoranthene	M24-Jn0053396	NCP	%	95			70-130	Pass	
Fluorene	M24-Jn0053396	NCP	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0053396	NCP	%	126			70-130	Pass	
Naphthalene	M24-Jn0053396	NCP	%	106			70-130	Pass	
Phenanthrene	M24-Jn0053396	NCP	%	99			70-130	Pass	
Pyrene	M24-Jn0053396	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M24-Jn0060942	CP	%	95			60-140	Pass	
Dibutyltin as Sn	M24-Jn0060942	CP	%	129			60-140	Pass	
Monobutyltin as Sn	M24-Jn0060942	CP	%	80			60-140	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0060944	CP	%	114			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0060944	CP	%	112			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0060944	CP	%	110			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0060944	CP	%	108			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0060944	CP	%	108			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0060944	CP	%	115			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0060944	CP	%	126			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0060944	CP	%	130			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0060944	CP	%	120			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0060944	CP	%	116			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0060944	CP	%	126			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0060944	CP	%	111			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0060944	CP	%	122			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0060944	CP	%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0060944	CP	%	116			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0060944	CP	%	100			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0060944	CP	%	118			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0060944	CP	%	111			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0060944	CP	%	110			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0060944	CP	%	103			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0060944	CP	%	110			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0060944	CP	%	109			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0060944	CP	%	107			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0060944	CP	%	106			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0060944	CP	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0060944	CP	%	73			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0060944	CP	%	117			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0060944	CP	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0060944	CP	%	114			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0060944	CP	%	117			50-150	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-Jn0050599	NCP	%	96			70-130	Pass	
Dimethoate	M24-Jn0050599	NCP	%	76			70-130	Pass	
Ethion	M24-Jn0050599	NCP	%	85			70-130	Pass	
Fenitrothion	M24-Jn0050599	NCP	%	73			70-130	Pass	
Methyl parathion	M24-Jn0050599	NCP	%	72			70-130	Pass	
Mevinphos	M24-Jn0050599	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0060984	CP	%	84			75-125	Pass	
Cadmium	M24-Jn0060984	CP	%	95			75-125	Pass	
Chromium	M24-Jn0060984	CP	%	87			75-125	Pass	
Lead	M24-Jn0060984	CP	%	99			75-125	Pass	
Mercury	M24-Jn0060984	CP	%	95			75-125	Pass	
Nickel	M24-Jn0060984	CP	%	78			75-125	Pass	
Zinc	M24-Jn0060984	CP	%	118			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0056363	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-Jn0056363	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0059370	NCP	mg/kg	0.2	0.2	17	30%	Pass	
Toluene	M24-Jn0059370	NCP	mg/kg	0.2	0.2	29	30%	Pass	
Ethylbenzene	M24-Jn0056363	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-Jn0056363	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-Jn0056363	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-Jn0056363	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2-Dichlorobenzene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0059370	NCP	mg/kg	1.5	1.9	27	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0059370	NCP	mg/kg	0.6	0.8	28	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-Jn0059370	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0056363	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan I	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M24-Jn0052563	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M24-Jn0052563	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-Jn0052563	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-Jn0052563	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-Jn0052563	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-Jn0052563	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

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Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-Jn0052563	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-Jn0060940	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Tributyltin as Sn	M24-Jn0060940	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tributyltin Oxide	M24-Jn0060940	CP	mg/kg	< 1.25	< 1.25	<1	30%	Pass	
Dibutyltin	M24-Jn0060940	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Dibutyltin as Sn	M24-Jn0060940	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monobutyltin	M24-Jn0060940	CP	mg/kg	< 0.75	< 0.75	<1	30%	Pass	
Monobutyltin as Sn	M24-Jn0060940	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	B24-Jn0050940	NCP	mg/kg	9.7	9.6	1.1	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0060940	CP	pH Units	13	13	pass	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M24-Jn0060940	CP	uS/cm	3900	4700	20	30%	Pass	
Duplicate									
Actual Acidity (NLM-3.2)				Result 1	Result 2	RPD			
pH-KCL (NLM-3.1)	M24-Jn0060940	CP	pH Units	13	13	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0060940	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	M24-Jn0060940	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Potential Acidity - Titratable Peroxide				Result 1	Result 2	RPD			
pH-OX	M24-Jn0060940	CP	pH Units	10	11	<1	20%	Pass	
Titratable Peroxide Acidity (s-TPA)	M24-Jn0060940	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Titratable Peroxide Acidity (a-TPA)	M24-Jn0060940	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Sulfidic Acidity (a-TSA)	M24-Jn0060940	CP	mol H+/t	< 2	< 2	<1	30%	Pass	
Titratable Sulfidic Acidity (s-TSA)	M24-Jn0060940	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Extractable Sulfur				Result 1	Result 2	RPD			
Sulfur - KCl Extractable	M24-Jn0060940	CP	% S	0.043	0.045	2.5	30%	Pass	
Peroxide Extractable Sulfur	M24-Jn0060940	CP	% S	0.13	0.12	3.8	20%	Pass	
HCl Extractable Sulfur	M24-Jn0060940	CP	% S	N/A	N/A	N/A	20%	Pass	
Duplicate									
Potential Acidity (SPOS)				Result 1	Result 2	RPD			
Peroxide Oxidisable Sulfur (s-SPOS) (NLM 2.2)	M24-Jn0060940	CP	% S	0.083	0.077	7.3	30%	Pass	
Peroxide Oxidisable Sulfur (a-SPOS) (NLM 2.2)	M24-Jn0060940	CP	mol H+/t	52	48	7.3	30%	Pass	
Duplicate									
Retained Acidity (S-NAS)				Result 1	Result 2	RPD			
Net Acid soluble sulfur (s-SNAS) NLM-4.1	M24-Jn0060940	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	M24-Jn0060940	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Duplicate									
Extractable Calcium				Result 1	Result 2	RPD			
Calcium - KCl Extractable	M24-Jn0060940	CP	% Ca	4.9	5.0	2.1	30%	Pass	
Calcium - Peroxide	M24-Jn0060940	CP	% Ca	34	34	<1	20%	Pass	
Calcium - Acid Reacted	M24-Jn0060940	CP	% Ca	29	29	<1	30%	Pass	
Calcium - Acid Reacted (s-aCa)	M24-Jn0060940	CP	% S	23	23	<1	30%	Pass	
Calcium - Acid Reacted (a-aCa)	M24-Jn0060940	CP	mol H+/t	15000	15000	<1	30%	Pass	

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Duplicate									
Extractable Magnesium				Result 1	Result 2	RPD			
Magnesium - KCl Extractable	M24-Jn0060940	CP	% Mg	< 0.005	< 0.005	<1	30%	Pass	
Magnesium - Peroxide	M24-Jn0060940	CP	% Mg	0.25	0.25	<1	20%	Pass	
Magnesium - Acid Reacted	M24-Jn0060940	CP	% Mg	0.25	0.25	<1	30%	Pass	
Magnesium - Acid Reacted (s-aCa)	M24-Jn0060940	CP	% S	0.33	0.33	<1	30%	Pass	
Magnesium - Acid Reacted (a-aCa)	M24-Jn0060940	CP	mol H+/t	210	210	<1	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCE)				Result 1	Result 2	RPD			
Acid Neutralising Capacity - (ANCE)	M24-Jn0060940	CP	% CaCO3	93	94	1.3	30%	Pass	
Acid Neutralising Capacity - (a-ANCE)	M24-Jn0060940	CP	mol H+/t	19000	19000	1.3	30%	Pass	
Duplicate									
Acid Neutralising Capacity (ANCbt)				Result 1	Result 2	RPD			
ANC Fineness Factor	M24-Jn0060940	CP	factor	1.5	1.5	<1	30%	Pass	
Duplicate									
Net Acidity (Including ANC)				Result 1	Result 2	RPD			
SPOCAS - Net Acidity - ASSMAC (Acidity Units)	M24-Jn0060940	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
SPOCAS - Net Acidity - ASSMAC (Sulfur Units)	M24-Jn0060940	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
SPOCAS - Liming rate - ASSMAC	M24-Jn0060940	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0060941	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0060941	CP	ug/kg	< 10	< 10	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0060941	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0060941	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060949	CP	%	11	11	7.5	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060953	CP	%	8.2	8.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0060954	CP	pH Units	12	12	pass	30%	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M24-Jn0060954	CP	uS/cm	4500	4300	3.4	30%	Pass	
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	M24-Jn0060954	CP	pH Units	13	12	pass	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron (%)	M24-Jn0052776	NCP	%	1.6	1.6	<1	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M24-Jn0048804	NCP	meq/100g	24	23	2.3	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0060956	CP	mg/kg	3.7	4.0	7.0	30%	Pass	
Cadmium	M24-Jn0060956	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0060956	CP	mg/kg	8.5	8.4	1.1	30%	Pass	
Copper	M24-Jn0060956	CP	mg/kg	9.4	9.8	3.4	30%	Pass	
Iron	M24-Jn0060956	CP	mg/kg	7800	7900	<1	30%	Pass	
Lead	M24-Jn0060956	CP	mg/kg	24	21	10	30%	Pass	
Mercury	M24-Jn0060956	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0060956	CP	mg/kg	6.6	5.9	11	30%	Pass	
Zinc	M24-Jn0060956	CP	mg/kg	27	26	<1	30%	Pass	

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Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060961	CP	%	18	18	4.5	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0060963	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0060963	CP	mg/kg	53	< 50	54	30%	Fail	Q15
TRH C29-C36	M24-Jn0060963	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0060963	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0060963	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0060963	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-Jn0060963	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0060970	CP	mg/kg	3.9	3.0	24	30%	Pass	
Cadmium	M24-Jn0060970	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0060970	CP	mg/kg	8.2	9.6	16	30%	Pass	
Copper	M24-Jn0060970	CP	mg/kg	10	11	4.5	30%	Pass	
Iron	M24-Jn0060970	CP	mg/kg	6300	6400	1.9	30%	Pass	
Lead	M24-Jn0060970	CP	mg/kg	16	17	3.3	30%	Pass	
Mercury	M24-Jn0060970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0060970	CP	mg/kg	< 5	5.7	22	30%	Pass	
Zinc	M24-Jn0060970	CP	mg/kg	25	34	30	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060973	CP	%	9.5	9.0	5.9	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0060983	CP	mg/kg	7.2	8.5	17	30%	Pass	
Cadmium	M24-Jn0060983	CP	mg/kg	< 0.4	0.8	81	30%	Fail	Q15
Chromium	M24-Jn0060983	CP	mg/kg	24	24	<1	30%	Pass	
Copper	M24-Jn0060983	CP	mg/kg	14	14	3.1	30%	Pass	
Iron	M24-Jn0060983	CP	mg/kg	20000	19000	5.9	30%	Pass	
Mercury	M24-Jn0060983	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0060983	CP	mg/kg	12	13	5.3	30%	Pass	
Zinc	M24-Jn0060983	CP	mg/kg	84	81	3.4	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060983	CP	%	14	14	<1	30%	Pass	

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Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0060984	CP	mg/kg	2.8	2.7	4.6	30%	Pass	
Cadmium	M24-Jn0060984	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0060984	CP	mg/kg	5.6	5.5	1.4	30%	Pass	
Copper	M24-Jn0060984	CP	mg/kg	50	50	<1	30%	Pass	
Iron	M24-Jn0060984	CP	mg/kg	4000	3900	1.9	30%	Pass	
Lead	M24-Jn0060984	CP	mg/kg	23	23	<1	30%	Pass	
Mercury	M24-Jn0060984	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0060984	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	M24-Jn0060984	CP	mg/kg	40	40	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25 °C as rec.)	M24-Jn0060984	CP	pH Units	9.6	9.4	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0060987	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0060987	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0060987	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0060987	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0060987	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0060987	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0060994	CP	mg/kg	3.9	3.1	23	30%	Pass	
Cadmium	M24-Jn0060994	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-Jn0060994	CP	mg/kg	11	9.1	19	30%	Pass	
Copper	M24-Jn0060994	CP	mg/kg	11	9.6	17	30%	Pass	
Iron	M24-Jn0060994	CP	mg/kg	10000	8900	12	30%	Pass	
Lead	M24-Jn0060994	CP	mg/kg	22	18	23	30%	Pass	
Mercury	M24-Jn0060994	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-Jn0060994	CP	mg/kg	7.1	6.3	12	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0060994	CP	%	7.8	8.5	8.1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Amy Meunier	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Jonathon Angell	Senior Analyst-SPOCAS
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1111027-W**
Project name Osborne EIS
Project ID 67064
Received Date Jun 14, 2024

Client Sample ID			**RB_13**	**FB_13**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M24-Jn0060995**	**M24-Jn0060996**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	97	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-

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Client Sample ID			RB_13	FB_13
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0060995	M24-Jn0060996
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	67	74
13C5-PFPeA (surr.)	1	%	76	90
13C5-PFHxA (surr.)	1	%	85	96
13C4-PFHpA (surr.)	1	%	81	96
13C8-PFOA (surr.)	1	%	91	108
13C5-PFNA (surr.)	1	%	78	90
13C6-PFDA (surr.)	1	%	75	84
13C2-PFUnDA (surr.)	1	%	60	66
13C2-PFDoDA (surr.)	1	%	55	61
13C2-PFTeDA (surr.)	1	%	37	32
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	73	85
D3-N-MeFOSA (surr.)	1	%	82	83
D5-N-EtFOSA (surr.)	1	%	88	87
D7-N-MeFOSE (surr.)	1	%	50	59
D9-N-EtFOSE (surr.)	1	%	55	61
D5-N-EtFOSAA (surr.)	1	%	59	67
D3-N-MeFOSAA (surr.)	1	%	64	73
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01

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Client Sample ID			RB_13	FB_13
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0060995	M24-Jn0060996
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFSAs)				
13C3-PFBS (surr.)	1	%	84	95
18O2-PFHxS (surr.)	1	%	84	98
13C8-PFOS (surr.)	1	%	82	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	70	85
13C2-6:2 FTSA (surr.)	1	%	92	98
13C2-8:2 FTSA (surr.)	1	%	64	79
13C2-10:2 FTSA (surr.)	1	%	57	56
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6: BTEX/TRH/M8			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 24, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 24, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 24, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 24, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M8	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 24, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 24, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
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Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111027
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 14, 2024 3:35 PM
Due: Jun 25, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH03/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060938		X															
2	BH03/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060939							X		X	X		X		X			
3	BH03/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060940			X		X			X			X	X					X
4	BH06/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060941							X					X		X		X	
5	BH06/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0060942			X		X			X				X					X
6	BH06/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060943										X		X					
7	BH07/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060944									X			X		X		X	
8	BH07/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060945								X				X					
9	BH08/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060946		X															

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Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
10	BH08/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060947								X				X					
11	BH08/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060948			X		X						X	X		X			X
12	BH09/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060949								X				X					
13	BH10/2_0.3-0.45	Jun 13, 2024		Soil	M24-Jn0060950							X		X			X		X		X	
14	BH12/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060951							X		X	X		X		X			
15	BH13/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060952												X				X	
16	BH13/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060953												X		X			
17	BH13/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060954	X							X				X	X				
18	BH14/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060955			X		X						X	X					X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Analytical Services Manager : Amy Meunier

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
19	BH15/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060956												X		X			
20	BH16/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060957		X															
21	BH16/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060958												X		X			
22	BH17/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060959		X						X				X					
23	BH18/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060960												X		X		X	
24	BH18/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060961			X		X			X				X					X
25	BH19/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060962		X															
26	BH19/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060963												X		X			
27	BH19/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060964			X		X			X			X	X					X
28	BH21/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060965		X															
29	BH21/2_0.2-	Jun 13, 2024		Soil	M24-Jn0060966									X	X		X		X			

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.5																					
30	BH22/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060967								X				X					
31	BH23/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060968												X				X	
32	BH23/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060969								X				X					
33	BH23/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060970									X			X		X			
34	BH24/2_0.2-0.4	Jun 13, 2024		Soil	M24-Jn0060971								X				X					
35	BH25/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060972		X						X				X					
36	BH25/2_0.3-0.8	Jun 13, 2024		Soil	M24-Jn0060973								X				X					
37	BH25/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060974			X		X		X		X	X	X	X		X			X
38	BH27/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060975												X				X	
39	BH28/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060976							X		X	X		X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
40	BH28/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0060977			X		X			X		X	X	X					X
41	BH30/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060978		X						X				X					
42	BH30/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0060979			X		X						X	X		X			X
43	BH50/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0060980								X		X		X					
44	BH50/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060981			X		X						X	X					X
45	BH58/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060982												X				X	
46	BH58/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060983							X		X			X		X			
47	BH58/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060984			X		X			X		X	X	X					X
48	BH62/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0060985							X		X			X		X			
49	BH64/1_0.05-	Jun 13, 2024		Soil	M24-Jn0060986		X															

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.3																					
50	BH66/1_0.05-0.3	Jun 13, 2024		Soil	M24-Jn0060987						X						X		X		X	
51	BH66/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060988			X		X			X		X	X	X					X
52	BH67/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060989								X				X					
53	BH67/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0060990								X				X					
54	BH70/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0060991		X							X			X		X			
55	BH70/4_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0060992								X				X					
56	DUP12	Jun 13, 2024		Soil	M24-Jn0060993												X		X			
57	DUP13	Jun 13, 2024		Soil	M24-Jn0060994								X				X					
58	RB_13	Jun 13, 2024		Water	M24-Jn0060995															X	X	
59	FB_13	Jun 13, 2024		Water	M24-Jn0060996																X	

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Project ID: 67064

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Fax: 08 8431 7115

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Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
60	BH07/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060997				X													
61	BH09/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0060998				X													
62	BH09/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0060999				X													
63	BH09/3_0.5-0.7	Jun 13, 2024		Soil	M24-Jn0061000				X													
64	BH10/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061001				X													
65	BH10/3_0.45-0.5	Jun 13, 2024		Soil	M24-Jn0061002				X													
66	BH12/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061003				X													
67	BH12/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061004				X													
68	BH14/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061005				X													
69	BH14/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061006				X													
70	BH15/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061007				X													

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
71	BH15/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061008				X													
72	BH16/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061009				X													
73	BH17/1_0-0.3	Jun 13, 2024		Soil	M24-Jn0061010				X													
74	BH17/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061011				X													
75	BH18/2_0.4-0.6	Jun 13, 2024		Soil	M24-Jn0061012				X													
76	BH21/3_0.7-1.0	Jun 13, 2024		Soil	M24-Jn0061013				X													
77	BH22/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061014				X													
78	BH22/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061015				X													
79	BH24/1_0-0.2	Jun 13, 2024		Soil	M24-Jn0061016				X													
80	BH24/3_0.6-	Jun 13, 2024		Soil	M24-Jn0061017				X													

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Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
	0.7																					
81	BH24/4_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061018				X													
82	BH27/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061019				X													
83	BH27/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061020				X													
84	BH28/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061021				X													
85	BH30/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061022				X													
86	BH50/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061023				X													
87	BH62/2_0.3-0.6	Jun 13, 2024		Soil	M24-Jn0061024				X													
88	BH62/3_0.6-1.0	Jun 13, 2024		Soil	M24-Jn0061025				X													

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Sample Detail						% Clay*	Asbestos - WA guidelines	Cyanide (total)	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	Suite B14: OCP/OPP	Volatile Organics	SPOCAS Suite	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B7	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X	X	X	X		X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217							X															
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780																X		X				
89	BH64/2_0.5-0.8	Jun 13, 2024		Soil	M24-Jn0061026				X													
90	BH64/3_0.8-1.0	Jun 13, 2024		Soil	M24-Jn0061027				X													
91	BH66/2_0.3-0.5	Jun 13, 2024		Soil	M24-Jn0061028				X													
92	BH67/2_0.2-0.5	Jun 13, 2024		Soil	M24-Jn0061029				X													
93	BH70/1_0.05-0.2	Jun 13, 2024		Soil	M24-Jn0061030				X													
94	BH70/3_0.7-0.8	Jun 13, 2024		Soil	M24-Jn0061031				X													
95	DUP11	Jun 13, 2024		Soil	M24-Jn0061032				X													
96	FB_12	Jun 13, 2024		Water	M24-Jn0061033				X													
97	SPLIT11	Jun 13, 2024		Soil	M24-Jn0061124				X													
Test Counts						1	10	12	38	16	1	8	23	11	10	10	51	1	21	1	11	12

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	116			70-130	Pass	
TRH C10-C14	%	88			70-130	Pass	
TRH C6-C10	%	118			70-130	Pass	
TRH >C10-C16	%	82			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
Xylenes - Total*	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	119			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	94			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	94			80-120	Pass	
Copper	%	95			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	93			80-120	Pass	
Nickel	%	96			80-120	Pass	
Zinc	%	95			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	88			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	84			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	87			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	84			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	83			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	83			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	87			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	66			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	95			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	106			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	89			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	86			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	86			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	82			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	90			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	84			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	83			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	64			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0059143	NCP	%	102			70-130	Pass	
TRH C10-C14	M24-Jn0057644	NCP	%	91			70-130	Pass	
TRH C6-C10	M24-Jn0059143	NCP	%	102			70-130	Pass	
TRH >C10-C16	M24-Jn0057644	NCP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0059143	NCP	%	81			70-130	Pass	
Toluene	M24-Jn0059143	NCP	%	79			70-130	Pass	
Ethylbenzene	M24-Jn0059143	NCP	%	78			70-130	Pass	
m&p-Xylenes	M24-Jn0059143	NCP	%	76			70-130	Pass	
o-Xylene	M24-Jn0059143	NCP	%	77			70-130	Pass	
Xylenes - Total*	M24-Jn0059143	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0059143	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0059574	NCP	%	105			75-125	Pass	
Cadmium	M24-Jn0059574	NCP	%	84			75-125	Pass	
Chromium	M24-Jn0059574	NCP	%	98			75-125	Pass	
Copper	M24-Jn0059574	NCP	%	85			75-125	Pass	
Lead	M24-Jn0059574	NCP	%	80			75-125	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	M24-Jn0059574	NCP	%	91			75-125	Pass	
Nickel	M24-Jn0059574	NCP	%	88			75-125	Pass	
Zinc	M24-Jn0059574	NCP	%	90			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0035069	NCP	%	84			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0035069	NCP	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0035069	NCP	%	83			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0035069	NCP	%	79			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0035069	NCP	%	81			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0035069	NCP	%	79			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0035069	NCP	%	81			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0035069	NCP	%	84			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0035069	NCP	%	84			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0035069	NCP	%	50			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0035069	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0035069	NCP	%	89			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0035069	NCP	%	72			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0035069	NCP	%	77			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0035069	NCP	%	82			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0035069	NCP	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0035069	NCP	%	78			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0035069	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0035069	NCP	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0035069	NCP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0035069	NCP	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0035069	NCP	%	77			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0035069	NCP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0035069	NCP	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0035069	NCP	%	75			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0035069	NCP	%	55			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0035069	NCP	%	78			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0035069	NCP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0035069	NCP	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0035069	NCP	%	84			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0061420	NCP	mg/L	0.02	< 0.02	25	30%	Pass	
TRH C10-C14	M24-Jn0057060	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M24-Jn0057060	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M24-Jn0057060	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-Jn0061420	NCP	mg/L	0.02	< 0.02	25	30%	Pass	
TRH >C10-C16	M24-Jn0057060	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M24-Jn0057060	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-Jn0057060	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0061420	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-Jn0061420	NCP	mg/L	0.004	0.004	8.5	30%	Pass	
Ethylbenzene	M24-Jn0061420	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-Jn0061420	NCP	mg/L	0.003	0.003	4.2	30%	Pass	
o-Xylene	M24-Jn0061420	NCP	mg/L	0.001	0.001	7.9	30%	Pass	
Xylenes - Total*	M24-Jn0061420	NCP	mg/L	0.004	0.004	5.4	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0061420	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0059574	NCP	mg/L	0.002	0.002	12	30%	Pass	
Cadmium	M24-Jn0059574	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-Jn0059574	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-Jn0059574	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M24-Jn0059574	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-Jn0059574	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-Jn0059574	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M24-Jn0059574	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0051421	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0051421	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

1-JN0065672

0007283059

FW: Additional testing for lab report 1108012

111649. HC
26/06

Amy Meunier <Amy.Meunier@eurofinsanz.com>
Wed 6/26/2024 10:56 AM

To:Solid Splttitng Melbourne <AU20_Solid_Splitting@eurofins.com>
Cc:Harry Bacalis <HarryBacalis@eurofins.com>

Verified Sender: This email is from an internal and/or verified domain which passed security verifications. Remember to still be cautious with personal data and follow company policies.

Additionals below SAMEDAY

Kind regards,

Amy Meunier

Analytical Services Manager

Mobile : +61 477 574 867

Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)

If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Wednesday, June 26, 2024 10:08 AM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Subject: Additional testing for lab report 1108012
Importance: High

Hi Amy,

Can I please order the following additional testing for lab reports 1108479, 1107846 and 1108287 (Osborne 67064):

- Silica gel cleanup then TRH for BH57/1_0-0.2
- TRH for BH57/2_0.3-0.5

1111649. HC 26/06

Please put this on same day TAT. Can you please confirm when the results will be due?

Thanks,

Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G

Kaurna Country | 100 Hutt St, Adelaide, SA

T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

-

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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+61 8 6253 4444
NATA# 2377
Site# 2370

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+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: Osborne EIS
Project ID: 67064
Turnaround time: Same day
Date/Time received Jun 26, 2024 10:56 AM
Eurofins reference 1111649

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1111649-S**
Project name Osborne EIS
Project ID 67064
Received Date Jun 26, 2024

Client Sample ID			**BH57/1_0-0.2**	**BH57/2 _0.3-0.5**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**M24-Jn0066070**	**M24-Jn0066071**
Date Sampled			**Jun 12, 2024**	**Jun 12, 2024**
Test/Reference	LOR	Unit		
TRH - 2013 NEPM Fractions (after silica gel clean-up)				
TRH >C10-C16 (after silica gel clean-up)	50	mg/kg	< 50	-
TRH >C16-C34 (after silica gel clean-up)	100	mg/kg	< 100	-
TRH >C34-C40 (after silica gel clean-up)	100	mg/kg	< 100	-
TRH >C10-C40 (total) (after silica-gel clean up)*	100	mg/kg	< 100	-
TRH - 1999 NEPM Fractions (after silica gel clean-up)				
TRH C10-C14 (after silica gel clean-up)	20	mg/kg	< 20	-
TRH C15-C28 (after silica gel clean-up)	50	mg/kg	< 50	-
TRH C29-C36 (after silica gel clean-up)	50	mg/kg	< 50	-
TRH C10-C36 (Total) (after silica gel clean-up)	100	mg/kg	< 50	-
Sample Properties				
% Moisture	1	%	7.4	21
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	-	< 20
TRH C10-C14	20	mg/kg	-	< 20
TRH C15-C28	50	mg/kg	-	< 50
TRH C29-C36	50	mg/kg	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50
TRH C6-C10	20	mg/kg	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	-	< 0.5

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
TRH - 2013 NEPM Fractions (after silica gel clean-up)	Melbourne	Jun 26, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
TRH - 1999 NEPM Fractions (after silica gel clean-up)	Melbourne	Jun 26, 2024	14 Days
- Method: TRH C6-C36 (Silica Gel Cleanup) - MGT 100A			
% Moisture	Melbourne	Jun 26, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 26, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 26, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 26, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: Osborne EIS
Project ID: 67064

Order No.:
Report #: 1111649
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 26, 2024 10:56 AM
Due: Jun 26, 2024
Priority: Same day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						TRH (after Silica Gel cleanup)	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	BH57/1_0-0.2	Jun 12, 2024		Soil	M24-Jn0066070	X	X	
2	BH57/2 _0.3-0.5	Jun 12, 2024		Soil	M24-Jn0066071		X	X
Test Counts						1	2	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	mg/kg	< 50			50	Pass	
TRH >C16-C34 (after silica gel clean-up)	mg/kg	< 100			100	Pass	
TRH >C34-C40 (after silica gel clean-up)	mg/kg	< 100			100	Pass	
Method Blank							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	mg/kg	< 20			20	Pass	
TRH C15-C28 (after silica gel clean-up)	mg/kg	< 50			50	Pass	
TRH C29-C36 (after silica gel clean-up)	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	%	102			70-130	Pass	
LCS - % Recovery							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	106			70-130	Pass	
TRH C10-C14	%	91			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0064366	NCP	%	125			70-130	Pass	
TRH C10-C14	M24-Jn0057256	NCP	%	96			70-130	Pass	
TRH C6-C10	M24-Jn0064366	NCP	%	119			70-130	Pass	
TRH >C10-C16	M24-Jn0057256	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0064366	NCP	%	75			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
TRH - 2013 NEPM Fractions (after silica gel clean-up)				Result 1	Result 2	RPD			
TRH >C10-C16 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
TRH - 1999 NEPM Fractions (after silica gel clean-up)				Result 1	Result 2	RPD			
TRH C10-C14 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36 (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C10-C36 (Total) (after silica gel clean-up)	M24-Jn0066070	CP	mg/kg	< 50	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0066070	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M24-Jn0066070	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0066070	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-Jn0066070	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M24-Jn0066071	CP	%	21	21	1.2	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0064365	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M24-Jn0055229	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-Jn0055229	NCP	mg/kg	63	72	14	30%	Pass	
TRH C29-C36	M24-Jn0055229	NCP	mg/kg	90	89	1.1	30%	Pass	
TRH C6-C10	M24-Jn0064365	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M24-Jn0055229	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-Jn0055229	NCP	mg/kg	150	150	1.8	30%	Pass	
TRH >C34-C40	M24-Jn0055229	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0064365	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

Amy Meunier	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5925	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 22/5/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au
ajames@jbsg.com.au

	SAMPLE DATA					CONTAINER DATA			ANALYSIS REQUIRED																
	SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B (TRH/BTEX/M8)	NOTES
	BH31/3	0.7	0.9	Soil	22/05/2024		1 Jar	1																		
	BH32/1	0	0.2	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2							X			X								
	BH32/2	0.4	0.6	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X				X								
	BH33/1	0	0.1	Soil	22/05/2024		1 Jar	1																		
	BH33/2	0.1	0.4	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2				X	X		X	X										
	BH33/3	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
	BH33/4	0.8	1	Soil	22/05/2024		1 Jar	1																		
	BH34/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X	X	X			X											
	BH34/2	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
	BH34/3	0.7	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2					X	X		X										
	BH35/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X											
	BH35/2	0.3	0.5	Soil	22/05/2024		1 Jar	1																		
	BH35/3	0.5	0.7	Soil	22/05/2024		1 Jar	1				X	X			X										
	BH35/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
	BH36/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X		X														
	BH36/2	0.2	0.4	Soil	22/05/2024		1 Jar	1																		
	BH36/3	0.5	0.7	Soil	22/05/2024		1 Jar	1								X										
	BH36/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
	DUP01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		
	DUP02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X													X		
	DUP03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
1	SPLIT01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		
2	SPLIT02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X													X		
3	SPLIT03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
	RB01	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5		X															X	
	RB02	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5																		
	FB01	-	-	Water	22/05/2024		1 PFAS	1		X																
	FB02	-	-	Water	22/05/2024		1 PFAS	1																		
									TOTAL	11	3	4	7	7	6	8	0	10	3	0	0	0	0	2	1	

12

Envirolab Services
ENVIROLAB 25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MFE0559
Date Received: 23/5/24
Time Received: 12:05pm
Received By: AG 14.3°c
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

EF
28/5/24

Please forward to Envirolab ASAP for analysis

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5925	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		**RECEIVED BY**
NAME : Jack Ayers	DATE: 22/5/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au ajames@jbsg.com.au	

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME.

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B (TRH/BTEX/M8)	NOTES
BH31/3	0.7	0.9	Soil	22/05/2024		1 Jar	1																		
BH32/1	0	0.2	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2							X			X								
BH32/2	0.4	0.6	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X				X								
BH33/1	0	0.1	Soil	22/05/2024		1 Jar	1																		
BH33/2	0.1	0.4	Soil	22/05/2024		1 Jar, 1 Asbestos bag	2				X	X		X	X										
BH33/3	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
BH33/4	0.8	1	Soil	22/05/2024		1 Jar	1																		
BH34/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X	X	X			X											
BH34/2	0.5	0.7	Soil	22/05/2024		1 Jar	1																		
BH34/3	0.7	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2					X	X		X										
BH35/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar, 1 Asbestos bag	3		X					X											
BH35/2	0.3	0.5	Soil	22/05/2024		1 Jar	1																		
BH35/3	0.5	0.7	Soil	22/05/2024		1 Jar	1				X	X			X										
BH35/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
BH36/1	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X		X														
BH36/2	0.2	0.4	Soil	22/05/2024		1 Jar	1																		
BH36/3	0.5	0.7	Soil	22/05/2024		1 Jar	1								X										
BH36/4	0.8	1	Soil	22/05/2024		1 Jar, 1 SPOCAS bag	2						X												
DUP01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		
DUP02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X														X	
DUP03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
SPLIT01	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2																		Please forward to Envirolab ASAP for analysis
SPLIT02	0	0.2	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2		X	X														X	
SPLIT03	0	0.3	Soil	22/05/2024		1 Jar, 1 PFAS Jar	2										X								
RB01	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5		X																X	
RB02	-	-	Water	22/05/2024		1A, 2V, 1P, 1 PFAS	5																		
FB01	-	-	Water	22/05/2024		1 PFAS	1		X																
FB02	-	-	Water	22/05/2024		1 PFAS	1																		
							TOTAL		11	3	4	7	7	6	8	0	10	3	0	0	0	0	2	1	

(12)

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MFE0559

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	3 Soil
Date Samples Received	28/05/2024
Date Instructions Received	28/05/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	04/06/2024
Date of Issue	04/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Joshua Williams, Organics and LC Supervisor Tara White, Metals Supervisor Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

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Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFE0559-01	Split01	Soil	22/05/2024	28/05/2024
MFE0559-02	Split02	Soil	22/05/2024	28/05/2024
MFE0559-03	Split03	Soil	22/05/2024	28/05/2024

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Volatile TRH and BTEX (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
TRH C6-C9	mg/kg	25	<25
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50
Benzene	mg/kg	0.20	<0.20
Toluene	mg/kg	0.50	<0.50
Ethylbenzene	mg/kg	1.0	<1.0
meta+para Xylene	mg/kg	2.0	<2.0
ortho-Xylene	mg/kg	1.0	<1.0
Total Xylene	mg/kg	3.0	<3.0
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0
Surrogate aaa-Trifluorotoluene	%		*116*

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Semi-volatile TRH (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
TRH C10-C14	mg/kg	50	<50
TRH C15-C28	mg/kg	100	<100
TRH C29-C36	mg/kg	100	<100
Total +ve TRH C10-C36	mg/kg	50	<50
TRH >C10-C16	mg/kg	50	<50
TRH >C10-C16 less Naphthalene F2	mg/kg	50	<50
TRH >C16-C34 (F3)	mg/kg	100	<100
TRH >C34-C40 (F4)	mg/kg	100	<100
Total +ve TRH >C10-C40	mg/kg	50	<50
Surrogate o-Terphenyl	%		*77.3*

Certificate of Analysis MFE0559

Polycyclic Aromatic Hydrocarbons (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
Naphthalene	mg/kg	0.10	<0.10
Acenaphthylene	mg/kg	0.10	<0.10
Acenaphthene	mg/kg	0.10	<0.10
Fluorene	mg/kg	0.10	<0.10
Phenanthrene	mg/kg	0.10	<0.10
Anthracene	mg/kg	0.10	<0.10
Fluoranthene	mg/kg	0.10	0.12
Pyrene	mg/kg	0.10	0.13
Benzo(a)anthracene	mg/kg	0.10	<0.10
Chrysene	mg/kg	0.10	<0.10
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20
Benzo(a)pyrene	mg/kg	0.050	0.078
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10
Total +ve PAH	mg/kg	0.050	0.33
Benzo(a)pyrene TEQ calc zero	mg/kg	0.50	<0.50
Benzo(a)pyrene TEQ calc Half	mg/kg	0.50	<0.50
Benzo(a)pyrene TEQ calc PQL	mg/kg	0.50	<0.50
Surrogate p-Terphenyl-D14	%		*79.7*

Organochlorine Pesticides (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
alpha-BHC	mg/kg	0.10	<0.10
Hexachlorobenzene	mg/kg	0.10	<0.10
beta-BHC	mg/kg	0.10	<0.10
gamma-BHC	mg/kg	0.10	<0.10
delta-BHC	mg/kg	0.10	<0.10
Heptachlor	mg/kg	0.10	<0.10
Aldrin	mg/kg	0.10	<0.10
Heptachlor epoxide	mg/kg	0.10	<0.10
trans-Chlordane	mg/kg	0.10	<0.10
cis-Chlordane	mg/kg	0.10	<0.10
Endosulfan I	mg/kg	0.10	<0.10
4,4'-DDE	mg/kg	0.10	<0.10
Dieldrin	mg/kg	0.10	<0.10
Endrin	mg/kg	0.10	<0.10
4,4'-DDD	mg/kg	0.10	<0.10
Endosulfan II	mg/kg	0.10	<0.10
Endrin aldehyde	mg/kg	0.10	<0.10
4,4'-DDT	mg/kg	0.10	<0.10
Endosulfan sulfate	mg/kg	0.10	<0.10
Endrin ketone	mg/kg	0.10	<0.10
Methoxychlor	mg/kg	0.10	<0.10
Mirex	mg/kg	0.10	<0.10
Total +ve OCP	mg/kg	0.10	<0.10
Surrogate 4-chloro-3-nitrobenzotrifluoride	%		*67.5*

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Acid Extractable Metals (Soil)

Envirolab ID	Units	PQL	MFE0559-02	MFE0559-03
Your Reference			Split02	Split03
Date Sampled			22/05/2024	22/05/2024
Arsenic	mg/kg	4.0	4.4	7.9
Cadmium	mg/kg	0.40	<0.40	<0.40
Chromium	mg/kg	1.0	8.8	7.8
Copper	mg/kg	1.0	10	25
Mercury	mg/kg	0.10	<0.10	<0.10
Nickel	mg/kg	1.0	4.5	7.2
Lead	mg/kg	1.0	29	19
Zinc	mg/kg	1.0	85	28

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Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	MFE0559-02	MFE0559-03
Your Reference			Split02	Split03
Date Sampled			22/05/2024	22/05/2024
Moisture	%	0.10	2.5	3.0

Certificate of Analysis MFE0559

PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	0.20
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	<0.10
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<0.50
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<1.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
Surrogate 13C8 PFOS	%		*121*
Surrogate 13C2 PFOA	%		*97.0*
Total +ve PFHxS+PFOS	µg/kg	0.10	0.20
Total +ve PFOA+PFOS	µg/kg	0.10	0.20
Total +ve PFAS	µg/kg	0.10	0.20
Extraction Internal Standard 13C3 PFBS	%		*91.8*
Extraction Internal Standard 18O2 PFHxS	%		*80.9*
Extraction Internal Standard 13C4 PFOS	%		*79.4*
Extraction Internal Standard 13C4 PFBA	%		*85.1*
Extraction Internal Standard 13C3 PFPeA	%		*85.3*
Extraction Internal Standard 13C2 PFHxA	%		*85.1*
Extraction Internal Standard 13C4 PFHpA	%		*80.1*
Extraction Internal Standard 13C4 PFOA	%		*84.9*
Extraction Internal Standard 13C5 PFNA	%		*81.2*
Extraction Internal Standard 13C2 PFDA	%		*83.2*

PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFE0559-02
Your Reference			Split02
Date Sampled			22/05/2024
Extraction Internal Standard 13C2 PFUnDA	%		*74.0*
Extraction Internal Standard 13C2 PFDoDA	%		*78.7*
Extraction Internal Standard 13C2 PFTeDA	%		*87.5*
Extraction Internal Standard 13C2 4:2FTS	%		*81.1*
Extraction Internal Standard 13C2 6:2FTS	%		*88.2*
Extraction Internal Standard 13C2 8:2FTS	%		*103*
Extraction Internal Standard 13C8 FOSA	%		*88.4*
Extraction Internal Standard d3 N MeFOSA	%		*77.2*
Extraction Internal Standard d5 N EtFOSA	%		*80.1*
Extraction Internal Standard d7 N MeFOSE	%		*79.2*
Extraction Internal Standard d9 N EtFOSE	%		*82.9*
Extraction Internal Standard d3 N MeFOSAA	%		*72.1*
Extraction Internal Standard d5 N EtFOSAA	%		*68.1*

Certificate of Analysis MFE0559

Method Summary

Method ID	Methodology Summary
INORG-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
METALS-020	Determination of various metals by ICP-OES.
METALS-021	Determination of Mercury by Cold Vapour AAS.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-022_OC	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFE0559

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	04/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFE0559

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Soil	2	22/05/2024	29/05/2024	29/05/2024	Yes
sTRH | Soil	2	22/05/2024	29/05/2024	29/05/2024	Yes
PAH | Soil	2	22/05/2024	29/05/2024	30/05/2024	Yes
OCP | Soil	2	22/05/2024	29/05/2024	30/05/2024	Yes
Metals | Soil	2-3	22/05/2024	29/05/2024	29/05/2024	Yes
Metals-Hg | Soil	2-3	22/05/2024	29/05/2024	29/05/2024	Yes
Moisture | Soil	2-3	22/05/2024	29/05/2024	30/05/2024	Yes
PFAS EXT-ISTD | Soil	2	22/05/2024	29/05/2024	31/05/2024	Yes
PFAS-Extended | Soil	2	22/05/2024	29/05/2024	31/05/2024	Yes

Outliers: Duplicates

INORG-008|Inorganics - Moisture (Soil)| Batch BFE4952

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFE4952-DUP2#	DUP2	Moisture	50.00	149

METALS-020|Acid Extractable Metals (Soil)| Batch BFE4956

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFE4956-DUP1#	DUP1	Copper	40.00	62.6[1]
MFE0559-03	DUP3	Lead	40.00	50.4[1]
MFE0559-03	DUP4	Copper	40.00	83.8[1]
MFE0559-03	DUP4	Lead	40.00	74.5[1]

Quality Control MFE0559

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil) | Batch BFE4957

Analyte	Units	PQL	Blank	DUP1 BFE4957-DUP1# Samp | QC | RPD %	LCS %	Spike % BFE4957-MS1#
TRH C6-C9	mg/kg	25	<25	<25 | <25 | [NA]	109	110
TRH C6-C10	mg/kg	25	<25	<25 | <25 | [NA]	114	117
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25	<25 | <25 | [NA]	[NA]	[NA]
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	[NA]	[NA]
Benzene	mg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	97.6	98.5
Toluene	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	110	112
Ethylbenzene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	114	116
meta+para Xylene	mg/kg	2.0	<2.0	<2.0 | <2.0 | [NA]	129	132
ortho-Xylene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	117	119
Total Xylene	mg/kg	3.0	<3.0	<3.0 | <3.0 | [NA]	[NA]	[NA]
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	*%*		*112*	*102 | 108*	*112*	*114*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Soil) | Batch BFE4958

Analyte	Units	PQL	Blank	DUP1 BFE4958-DUP1# Samp | QC | RPD %	DUP2 BFE4958-DUP2# Samp | QC | RPD %	LCS %	Spike % BFE4958-MS1#
TRH C10-C14	mg/kg	50	<50	<50 | <50 | [NA]		125	101
TRH C15-C28	mg/kg	100	<100	<100 | <100 | [NA]		110	94.1
TRH C29-C36	mg/kg	100	<100	<100 | <100 | [NA]		114	106
TRH >C10-C16	mg/kg	50	<50	<50 | <50 | [NA]		98.2	81.2
TRH >C16-C34 (F3)	mg/kg	100	<100	<100 | <100 | [NA]		114	97.8
TRH >C34-C40 (F4)	mg/kg	100	<100	<100 | <100 | [NA]		94.3	89.7
Surrogate o-Terphenyl	*%*		*73.4*	*75.6 | 75.7*		*99.1*	*92.2*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil) | Batch BFE4958

Analyte	Units	PQL	Blank	DUP1 BFE4958-DUP1# Samp | QC | RPD %	DUP2 BFE4958-DUP2# Samp | QC | RPD %	LCS %	Spike % BFE4958-MS2#
Naphthalene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		96.4	114
Acenaphthylene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Acenaphthene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		97.6	114
Fluorene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		101	117
Phenanthrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		92.7	107
Anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Fluoranthene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		97.3	114
Pyrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		103	120
Benzo(a)anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Chrysene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		101	119
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]		[NA]	[NA]
Benzo(a)pyrene	mg/kg	0.050	<0.050	<0.050 | <0.050 | [NA]		98.4	114
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Surrogate p-Terphenyl-D14	*%*		*84.7*	*82.3 | 80.7*		*84.6*	*82.2*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFE0559

ORG-022_OC | Organochlorine Pesticides (Soil) | Batch BFE4958

Analyte	Units	PQL	Blank	DUP1 BFE4958-DUP1# Samp | QC | RPD %	DUP2 BFE4958-DUP2# Samp | QC | RPD %	LCS %	Spike % BFE4958-MS2#
alpha-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		97.7	112
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
beta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		96.9	118
gamma-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
delta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Heptachlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		92.7	114
Aldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		113	134
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		93.6	106
trans-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
cis-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endosulfan I	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
4,4'-DDE	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		103	119
Dieldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		99.3	120
Endrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		120	137
4,4'-DDD	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		134	135
Endosulfan II	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
4,4'-DDT	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		67.7	67.6
Endrin ketone	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Methoxychlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Mirex	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Surrogate 4-chloro-3-nitrobenzotrifluoride	*%*		*68.5*	*67.5 | 69.4*		*84.5*	*82.6*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020 | Acid Extractable Metals (Soil) | Batch BFE4956

Analyte	Units	PQL	Blank	DUP1 BFE4956-DUP1# Samp | QC | RPD %	DUP2 BFE4956-DUP2# Samp | QC | RPD %	LCS %	Spike % BFE4956-MS1#
Arsenic	mg/kg	4.0	<4.0	5.56 | 5.15 | 7.72	5.56 | 6.51 | 15.7	106	107
Cadmium	mg/kg	0.40	<0.40	<0.40 | <0.40 | [NA]	<0.40 | <0.40 | [NA]	110	97.2
Chromium	mg/kg	1.0	<1.0	22.0 | 18.9 | 15.3	22.0 | 25.8 | 16.0	103	102
Copper	mg/kg	1.0	<1.0	19.0 | 9.96 | 62.6 [1]	19.0 | 14.7 | 25.7	104	116
Lead	mg/kg	1.0	<1.0	7.83 | 6.67 | 16.0	7.83 | 9.11 | 15.2	102	98.8
Mercury	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	96.8	[NA]
Nickel	mg/kg	1.0	<1.0	12.4 | 11.1 | 10.7	12.4 | 14.6 | 16.6	103	93.8
Zinc	mg/kg	1.0	<1.0	15.3 | 13.2 | 14.3	15.3 | 18.1 | 16.8	103	89.7

Analyte	Units	PQL	Blank	DUP3 MFE0559-03 Samp | QC | RPD %	DUP4 MFE0559-03 Samp | QC | RPD %	LCS %	Spike % BFE4956-MS2#
Arsenic	mg/kg	4		7.86 | 9.03 | 13.8	7.86 | 6.51 | 18.9	[NA]	[NA]
Cadmium	mg/kg	0.4		<0.40 | <0.40 | [NA]	<0.40 | <0.40 | [NA]	[NA]	[NA]
Chromium	mg/kg	1		7.83 | 9.09 | 14.9	7.83 | 7.47 | 4.74	[NA]	[NA]
Copper	mg/kg	1		24.9 | 20.2 | 21.0	24.9 | 60.9 | 83.8 [1]	[NA]	[NA]
Lead	mg/kg	1		19.3 | 11.5 | 50.4 [1]	19.3 | 8.82 | 74.5 [1]	[NA]	[NA]
Mercury	mg/kg	0.1		<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	[NA]	94.2
Nickel	mg/kg	1		7.15 | 7.89 | 9.80	7.15 | 6.35 | 11.9	[NA]	[NA]
Zinc	mg/kg	1		27.9 | 35.4 | 23.8	27.9 | 28.1 | 0.744	[NA]	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFE0559

INORG-008 | Inorganics - Moisture (Soil) | Batch BFE4952

Analyte	Units	PQL	Blank	DUP1 BFE4952-DUP1# Samp | QC | RPD %	DUP2 BFE4952-DUP2# Samp | QC | RPD %	LCS %
Moisture	%	0.1		17.5 | 17.9 | 2.43	1.23 | 8.47 | 149	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFE0559

ORG-029|PFAS Extended List (Soil) | Batch BFE4955

Analyte	Units	PQL	Blank	DUP1 MFE0559-02 Samp | QC | RPD %	DUP2 MFE0559-02 Samp | QC | RPD %	LCS %	Spike % MFE0559-02
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	106	97.3
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	105	111
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	96.4	100
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	94.4	94.5
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	<0.10	0.200 | 0.328 | 48.5	0.200 | 0.202 | 0.875	102	94.8
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	115	116
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	103	106
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	108	110
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	107	111
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	106	107
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	110	113
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	104	102
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	108	97.5
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	109	114
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	107	116
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	115	118
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	110	113
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	93.6	101
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	115	112
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	102	100
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	122	138
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	108	103
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	110	100
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	104	104
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	119	111
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	109	109
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	101	115
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	87.5	106
Surrogate 13C8 PFOS	%		*117*	*121 | 119*	*121 | 117*	*113*	*117*
Surrogate 13C2 PFOA	%		*104*	*97.0 | 98.6*	*97.0 | 99.9*	*100*	*102*
Extraction Internal Standard 13C3 PFBS	%		*94.4*	*91.8 | 91.4 | 0.491*	*91.8 | 85.4 | 7.26*	*[NA]*	*[NA]*
Extraction Internal Standard 18O2 PFHxS	%		*82.5*	*80.9 | 79.7 | 1.44*	*80.9 | 81.4 | 0.616*	*[NA]*	*[NA]*
Extraction Internal Standard 13C4 PFOS	%		*74.8*	*79.4 | 77.5 | 2.40*	*79.4 | 78.8 | 0.683*	*[NA]*	*[NA]*
Extraction Internal Standard 13C4 PFBA	%		*90.5*	*85.1 | 87.0 | 2.22*	*85.1 | 87.2 | 2.45*	*[NA]*	*[NA]*
Extraction Internal Standard 13C3 PFPeA	%		*90.8*	*85.3 | 87.7 | 2.74*	*85.3 | 86.2 | 1.06*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 PFHxA	%		*89.8*	*85.1 | 84.0 | 1.35*	*85.1 | 85.8 | 0.726*	*[NA]*	*[NA]*
Extraction Internal Standard 13C4 PFHpA	%		*83.3*	*80.1 | 82.3 | 2.72*	*80.1 | 81.3 | 1.54*	*[NA]*	*[NA]*
Extraction Internal Standard 13C4 PFOA	%		*84.7*	*84.9 | 81.6 | 3.90*	*84.9 | 80.1 | 5.76*	*[NA]*	*[NA]*
Extraction Internal Standard 13C5 PFNA	%		*81.8*	*81.2 | 78.6 | 3.37*	*81.2 | 80.8 | 0.531*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 PFDA	%		*82.6*	*83.2 | 75.6 | 9.45*	*83.2 | 81.1 | 2.51*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 PFUnDA	%		*83.2*	*74.0 | 80.6 | 8.54*	*74.0 | 77.9 | 5.17*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 PFDoDA	%		*83.5*	*78.7 | 78.2 | 0.561*	*78.7 | 80.3 | 2.05*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 PFTeDA	%		*86.1*	*87.5 | 89.9 | 2.67*	*87.5 | 86.6 | 1.10*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 4:2FTS	%		*89.0*	*81.1 | 82.9 | 2.21*	*81.1 | 80.6 | 0.643*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 6:2FTS	%		*97.2*	*88.2 | 86.6 | 1.75*	*88.2 | 87.0 | 1.35*	*[NA]*	*[NA]*
Extraction Internal Standard 13C2 8:2FTS	%		*88.4*	*103 | 110 | 6.77*	*103 | 94.0 | 9.13*	*[NA]*	*[NA]*
Extraction Internal Standard 13C8 FOSA	%		*88.0*	*88.4 | 92.4 | 4.42*	*88.4 | 88.3 | 0.102*	*[NA]*	*[NA]*
Extraction Internal Standard d3 N MeFOSA	%		*73.6*	*77.2 | 97.4 | 23.2*	*77.2 | 78.2 | 1.30*	*[NA]*	*[NA]*
Extraction Internal Standard d5 N EtFOSA	%		*77.4*	*80.1 | 72.8 | 9.48*	*80.1 | 78.7 | 1.76*	*[NA]*	*[NA]*
Extraction Internal Standard d7 N MeFOSE	%		*78.9*	*79.2 | 81.3 | 2.67*	*79.2 | 73.5 | 7.42*	*[NA]*	*[NA]*
Extraction Internal Standard d9 N EtFOSE	%		*76.0*	*82.9 | 81.7 | 1.46*	*82.9 | 76.8 | 7.55*	*[NA]*	*[NA]*
Extraction Internal Standard d3 N MeFOSAA	%		*77.6*	*72.1 | 71.2 | 1.28*	*72.1 | 66.4 | 8.16*	*[NA]*	*[NA]*
Extraction Internal Standard d5 N EtFOSAA	%		*83.4*	*68.1 | 76.7 | 11.9*	*68.1 | 77.8 | 13.3*	*[NA]*	*[NA]*

Quality Control MFE0559

QC Comments

Identifier	Description
[1]	Duplicate analysis precision is/are outside acceptable %RPD, re-analysis indicates possible sample heterogeneity.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: + 61 8 8431 7113 F: + 61 8 8431 7115
ACN 150 200 479 - ABN 62 150 200 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: 5930	SAMPLERS: JA JB AJ AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY:
NAME: Jack Ayers	DATE: 29/5/24	NAME: DATE:
OF: JBS&G (Australia) Pty Ltd	TIME:	OF: TIME:
NAME:	DATE:	NAME: DATE:
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au ajames@jbsg.com.au	

METHOD OF SHIPMENT: Overnight
CONSIGNMENT NOTE NO.
TRANSPORT CO. NAME:

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED																	
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (20)	OCPs	OPPs	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	PAH	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	NOTES
BH37/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X					X		X								
BH37/2	0.2	0.4	Soil	29/05/2024		1 Jar	1								X										
BH37/3	0.8	1	Soil	29/05/2024		1 Jar	1													*					
BH38/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH38/2	0.4	0.6	Soil	29/05/2024		1 Jar	1																X		
BH38/3	0.8	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2					X	X		X		X				X				
BH39/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X																
BH39/2	0.4	0.6	Soil	29/05/2024		1 Jar	1										X								
BH39/3	0.6	0.8	Soil	29/05/2024		1 Jar	1					X						X		X	X	X	X		
BH39/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH40/1	0	0.3	Soil	29/05/2024		1 Jar, 1 Asbestos bag	2							X											
BH40/2	0.3	0.5	Soil	29/05/2024		1 Jar	1										X								
BH40/3	0.6	0.8	Soil	29/05/2024		1 Jar	1																		
BH40/4	0.8	1	Soil	29/05/2024		1 Jar	1																X		
BH41/1	0	0.2	Soil	29/05/2024		1 Jar	1								X										
BH41/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH41/3	0.7	0.8	Soil	29/05/2024		1 Jar	1																		
BH41/4	0.8	1	Soil	29/05/2024		1 Jar	2											X		X			X		
BH42/1	0	0.3	Soil	29/05/2024		1 Jar, 1 Asbestos bag	1							X											
BH42/2	0.3	0.6	Soil	29/05/2024		1 Jar	1																X		
BH42/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH42/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH43/1	0	0.2	Soil	29/05/2024		1 Jar, 1 Asbestos bag	2							X											
BH43/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH43/3	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH44/1	0	0.1	Soil	29/05/2024		1 Jar	1															X	X		
BH44/2	0.5	0.7	Soil	29/05/2024		1 Jar	1					X									X				
BH44/3	0.7	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X										
BH45/1	0	0.2	Soil	29/05/2024		1 Jar	1			X							X								
BH45/2	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH45/3	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH47/1	0	0.1	Soil	29/05/2024		1 Jar	1																		
BH47/2	0.2	0.4	Soil	29/05/2024		1 Jar	1											X		X		X	X		
BH47/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH47/4	0.8	1	Soil	29/05/2024		1 Jar	1																		
BH48/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH48/2	0.4	0.6	Soil	29/05/2024		1 Jar	1																X		
BH48/3	0.6	0.8	Soil	29/05/2024		1 Jar	1										X								
BH48/4	0.8	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X										
BH49/1	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X								X								
BH49/2	0.2	0.4	Soil	29/05/2024		1 Jar	1																		
BH49/3	0.7	0.9	Soil	29/05/2024		1 Jar	1																		
BH49/4	0.9	1	Soil	29/05/2024		1 Jar	1																		
BH83/1	0	0.2	Soil	29/05/2024		1 Jar	1																		
BH83/2	0.2	0.4	Soil	29/05/2024		1 Jar	1																		
BH83/3	0.5	0.7	Soil	29/05/2024		1 Jar	1																		
BH83/4	0.7	1	Soil	29/05/2024		1 Jar, SPOCAS Bag	2						X		X		X		X						
DUP05	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2																		
DUP06	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X							X								
SPLIT05	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT06	0	0.2	Soil	29/05/2024		1 Jar, 1 PFAS Jar	2		X	X							X								
RB04	-	-	Water	29/05/2024		1A, 2V,1 Metals 1 PFAS	5		X																X
TB04	-	-	Water	29/05/2024		1 PFAS	1		X																
								TOTAL	7	4	0	3	4	3	6	0	12	3	1	3	3	3	9	1	

1

COPY

13 AC 1/2

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MFF0064
Date Received: 05/06/24
Time Received: 12:00
Received By: CJ
Temp: Cool/Ambient 9.5
Cooling: Ice/Icepack
Security: Intact/Broken/None

Refused
Angelo EF
05/6/24
8:00 AM

Comments
EF
30/5 1.56 pm

110432 4

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MFF0064

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	2 Soil
Date Samples Received	05/06/2024
Date Instructions Received	05/06/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	13/06/2024
Date of Issue	13/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Azrin Akram, Senior Chemist Chris De Luca, Assistant Lab Manager Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

Certificate of Analysis MFF0064

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFF0064-01	SPLIT05	Soil	29/05/2024	05/06/2024
MFF0064-02	SPLIT06	Soil	29/05/2024	05/06/2024

Organochlorine Pesticides (Soil)

Envirolab ID	Units	PQL	MFF0064-02
Your Reference			SPLIT06
Date Sampled			29/05/2024
alpha-BHC	mg/kg	0.10	<0.10
Hexachlorobenzene	mg/kg	0.10	<0.10
beta-BHC	mg/kg	0.10	<0.10
gamma-BHC	mg/kg	0.10	<0.10
delta-BHC	mg/kg	0.10	<0.10
Heptachlor	mg/kg	0.10	<0.10
Aldrin	mg/kg	0.10	<0.10
Heptachlor epoxide	mg/kg	0.10	<0.10
trans-Chlordane	mg/kg	0.10	<0.10
cis-Chlordane	mg/kg	0.10	<0.10
Endosulfan I	mg/kg	0.10	<0.10
4,4'-DDE	mg/kg	0.10	<0.10
Dieldrin	mg/kg	0.10	<0.10
Endrin	mg/kg	0.10	<0.10
4,4'-DDD	mg/kg	0.10	<0.10
Endosulfan II	mg/kg	0.10	<0.10
Endrin aldehyde	mg/kg	0.10	<0.10
4,4'-DDT	mg/kg	0.10	<0.10
Endosulfan sulfate	mg/kg	0.10	<0.10
Endrin ketone	mg/kg	0.10	<0.10
Methoxychlor	mg/kg	0.10	<0.10
Mirex	mg/kg	0.10	<0.10
Total +ve OCP	mg/kg	0.10	<0.10
Surrogate 4-chloro-3-nitrobenzotrifluoride	%		*82.3*

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Acid Extractable Metals (Soil)

Envirolab ID	Units	PQL	MFF0064-02
Your Reference			SPLIT06
Date Sampled			29/05/2024
Arsenic	mg/kg	4.0	4.7
Cadmium	mg/kg	0.40	<0.40
Chromium	mg/kg	1.0	5.2
Copper	mg/kg	1.0	30
Mercury	mg/kg	0.10	<0.10
Nickel	mg/kg	1.0	5.8
Lead	mg/kg	1.0	15
Zinc	mg/kg	1.0	42

Certificate of Analysis MFF0064

Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	MFF0064-02
Your Reference			SPLIT06
Date Sampled			29/05/2024
Moisture	%	0.10	16

Certificate of Analysis MFF0064

PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFF0064-02
Your Reference			SPLIT06
Date Sampled			29/05/2024
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	1.0
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	0.23
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<1.0 [5]
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<2.0 [5]
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
Surrogate 13C8 PFOS	%		*108*
Surrogate 13C2 PFOA	%		*107*
Total +ve PFHxS+PFOS	µg/kg	0.10	1.0
Total +ve PFOA+PFOS	µg/kg	0.10	1.2
Total +ve PFAS	µg/kg	0.10	1.2
Extraction Internal Standard 13C3 PFBS	%		*83.3*
Extraction Internal Standard 18O2 PFHxS	%		*93.9*
Extraction Internal Standard 13C4 PFOS	%		*72.8*
Extraction Internal Standard 13C4 PFBA	%		*58.3*
Extraction Internal Standard 13C3 PFPeA	%		*72.2*
Extraction Internal Standard 13C2 PFHxA	%		*71.2*
Extraction Internal Standard 13C4 PFHpA	%		*80.8*
Extraction Internal Standard 13C4 PFOA	%		*68.8*
Extraction Internal Standard 13C5 PFNA	%		*70.8*
Extraction Internal Standard 13C2 PFDA	%		*61.8*

Certificate of Analysis MFF0064

PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFF0064-02
Your Reference			SPLIT06
Date Sampled			29/05/2024
Extraction Internal Standard 13C2 PFUnDA	%		*42.0 [3]*
Extraction Internal Standard 13C2 PFDoDA	%		*65.8*
Extraction Internal Standard 13C2 PFTeDA	%		*68.0*
Extraction Internal Standard 13C2 4:2FTS	%		*68.1*
Extraction Internal Standard 13C2 6:2FTS	%		*99.3*
Extraction Internal Standard 13C2 8:2FTS	%		*146*
Extraction Internal Standard 13C8 FOSA	%		*82.6*
Extraction Internal Standard d3 N MeFOSA	%		*46.9 [3]*
Extraction Internal Standard d5 N EtFOSA	%		*66.7*
Extraction Internal Standard d7 N MeFOSE	%		*70.3*
Extraction Internal Standard d9 N EtFOSE	%		*71.1*
Extraction Internal Standard d3 N MeFOSAA	%		*85.4*
Extraction Internal Standard d5 N EtFOSAA	%		*107*

Result Comments

Identifier	Description
[3]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[5]	PQL(s) has/have been raised due to suppression of the internal standard, which required the sample(s) to be diluted. This is likely due to the high level of salts in the sample.

Method Summary

Method ID	Methodology Summary
INORG-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
METALS-020	Determination of various metals by ICP-OES.
METALS-021	Determination of Mercury by Cold Vapour AAS.
ORG-022_OC	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFF0064

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	13/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFF0064

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
OCP | Soil	2	29/05/2024	06/06/2024	06/06/2024	Yes
Metals | Soil	2	29/05/2024	06/06/2024	07/06/2024	Yes
Metals-Hg | Soil	2	29/05/2024	06/06/2024	06/06/2024	Yes
Moisture | Soil	2	29/05/2024	06/06/2024	07/06/2024	Yes
PFAS EXT-ISTD | Soil	2	29/05/2024	06/06/2024	07/06/2024	Yes
PFAS-Extended | Soil	2	29/05/2024	06/06/2024	07/06/2024	Yes

Outliers: Duplicates

ORG-029 | PFAS Extended List (Soil) | Batch BFF0569

Sample ID	Duplicate ID	Analyte	% Limits	RPD
MFF0064-02	DUP1	Perfluorooctanesulfonic acid (PFOS)	50.00	61.9[6]
MFF0064-02	DUP1	Perfluorooctanoic acid (PFOA)	50.00	70.8[6]
MFF0064-02	DUP2	Perfluorooctanesulfonic acid (PFOS)	50.00	70.6[6]

Data Quality Assessment Summary MFF0064

Outliers: Matrix Spike

ORG-029|PFAS Extended List (Soil)| Batch BFF0569

Sample ID	Analyte	% Limits	% Recovery
BFF0569-MS1#	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	60 - 140	##[1]
BFF0569-MS1#	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	60 - 140	##[1]
BFF0569-MS1#	N-Ethyl perfluorooctane sulfonamidoacetic acid	60 - 140	##[2]
BFF0569-MS1#	N-Methyl perfluorooctane sulfonamidoacetic acid	60 - 140	##[2]
BFF0569-MS1#	Perfluorobutanesulfonic acid (PFBS)	60 - 140	##[1]
BFF0569-MS1#	Perfluorobutanoic acid (PFBA)	60 - 140	##[1]
BFF0569-MS1#	Perfluorodecanesulfonic acid (PFDS)	60 - 140	##[1]
BFF0569-MS1#	Perfluoroheptanesulfonic acid (PFHpS)	60 - 140	##[1]
BFF0569-MS1#	Perfluoroheptanoic acid (PFHpA)	60 - 140	##[1]
BFF0569-MS1#	Perfluorohexanesulfonic acid (PFHxS)	60 - 140	##[1]
BFF0569-MS1#	Perfluorohexanoic acid (PFHxA)	60 - 140	##[1]
BFF0569-MS1#	Perfluorooctanesulfonic acid (PFOS)	60 - 140	##[1]
BFF0569-MS1#	Perfluorooctanoic acid (PFOA)	60 - 140	##[1]
BFF0569-MS1#	Perfluoropentanesulfonic acid (PFPeS)	60 - 140	##[1]
BFF0569-MS1#	Perfluoropentanoic acid (PFPeA)	60 - 140	##[1]

Outliers: Surrogate / Extracted Internal Standards

ORG-029|PFAS Extended List (Matrix)| Batch BFF0569

Sample ID	Analyte	% Limits	% Recovery
MFF0064-02	Extraction Internal Standard d3 N MeFOSA	50 - 150	46.9 [3]
	Extraction Internal Standard 13C2 PFUnDA	50 - 150	42.0 [3]

Quality Control MFF0064

ORG-022_OC|Organochlorine Pesticides (Soil) | Batch BFF0573

Analyte	Units	PQL	Blank	DUP1 BFF0573-DUP1# Samp | QC | RPD %	DUP2 BFF0573-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF0573-MS2#
alpha-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		79.3	103
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
beta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		75.4	98.6
gamma-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
delta-BHC	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Heptachlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		80.3	102
Aldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		65.7	93.7
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		123	107
trans-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
cis-Chlordane	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endosulfan I	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
4,4'-DDE	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		99.9	104
Dieldrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		84.3	95.9
Endrin	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		101	117
4,4'-DDD	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		108	113
Endosulfan II	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
4,4'-DDT	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		94.3	92.1
Endrin ketone	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Methoxychlor	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Mirex	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Surrogate 4-chloro-3-nitrobenzotrifluoride	*%*		*93.2*	*77.8 | 95.6*		*100*	*96.6*

Analyte	Units	PQL	Blank	DUP3 BFF0573-DUP3# Samp | QC | RPD %	DUP4 BFF0573-DUP4# Samp | QC | RPD %	LCS %
alpha-BHC	mg/kg	0.1		<4.00 | <3.0 | [NA] [4]		[NA]
Hexachlorobenzene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
beta-BHC	mg/kg	0.1		<3.00 | <2.0 | [NA] [4]		[NA]
gamma-BHC	mg/kg	0.1		<4.0 | <4.0 | [NA] [4]		[NA]
delta-BHC	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Heptachlor	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Aldrin	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Heptachlor epoxide	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
trans-Chlordane	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
cis-Chlordane	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endosulfan I	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
4,4'-DDE	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Dieldrin	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endrin	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
4,4'-DDD	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endosulfan II	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endrin aldehyde	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
4,4'-DDT	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endosulfan sulfate	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Endrin ketone	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Methoxychlor	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Mirex	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Surrogate 4-chloro-3-nitrobenzotrifluoride	*%*			*88.0 | 90.3*		*[NA]*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0064

METALS-020|Acid Extractable Metals (Soil) | Batch BFF0571

Analyte	Units	PQL	Blank	DUP1 BFF0571-DUP1# Samp | QC | RPD %	DUP2 BFF0571-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF0571-MS1#
Arsenic	mg/kg	4.0	<4.0	<4.0 | <4.0 | [NA]		104	100
Cadmium	mg/kg	0.40	<0.40	<0.40 | <0.40 | [NA]		106	88.9
Chromium	mg/kg	1.0	<1.0	21.7 | 26.5 | 19.9		103	101
Copper	mg/kg	1.0	<1.0	21.7 | 26.0 | 18.0		99.1	110
Lead	mg/kg	1.0	<1.0	53.8 | 57.0 | 5.85		104	94.0
Mercury	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA] [6]		83.6	92.1
Nickel	mg/kg	1.0	<1.0	43.5 | 56.4 | 25.8		104	94.5
Zinc	mg/kg	1.0	<1.0	52.7 | 57.0 | 7.95		106	90.9

Analyte	Units	PQL	Blank	DUP3 BFF0571-DUP3# Samp | QC | RPD %	DUP4 BFF0571-DUP4# Samp | QC | RPD %	LCS %
Arsenic	mg/kg	4		4.58 | 4.74 | 3.39		[NA]
Cadmium	mg/kg	0.4		<0.40 | <0.40 | [NA]		[NA]
Chromium	mg/kg	1		14.3 | 13.6 | 4.82		[NA]
Copper	mg/kg	1		11.3 | 10.8 | 4.94		[NA]
Lead	mg/kg	1		6.93 | 5.37 | 25.5		[NA]
Mercury	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Nickel	mg/kg	1		8.43 | 10.1 | 17.9		[NA]
Zinc	mg/kg	1		22.6 | 29.1 | 25.1		[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-008|Inorganics - Moisture (Soil) | Batch BFF0561

Analyte	Units	PQL	Blank	DUP1 BFF0561-DUP1# Samp | QC | RPD %	DUP2 BFF0561-DUP2# Samp | QC | RPD %	LCS %
Moisture	%	0.1		15.4 | 16.6 | 8.12	6.93 | 6.60 | 4.88	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0064

ORG-029|PFAS Extended List (Soil) | Batch BFF0569

Analyte	Units	PQL	Blank	DUP1 MFF0064-02 Samp | QC | RPD %	DUP2 MFF0064-02 Samp | QC | RPD %	LCS %	Spike % BFF0569-MS1#
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	83.3	##[1]
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	87.3	##[1]
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	81.5	##[1]
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	80.2	##[1]
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	<0.10	1.05 | 0.553 | 61.9 [6]	1.05 | 0.501 | 70.6 [6]	76.2	##[1]
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	83.3	##[1]
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	97.3	##[1]
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	101	##[1]
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	97.1	##[1]
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	99.9	##[1]
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	<0.10	0.229 | 0.109 | 70.8 [6]	0.229 | 0.189 | 19.1	102	##[1]
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	96.8	119
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	103	125
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<0.50	<1.00 | <0.50 | [NA]	<1.00 | <0.50 | [NA]	85.8	137
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	102	100
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	112	100
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	100	##[2]
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	92.1	69.8
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	103	##[1]
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	101	##[1]
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	90.8	136
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	97.6	78.7
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<1.0	<2.00 | <1.0 | [NA]	<2.00 | <1.0 | [NA]	98.0	79.9
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	81.4	80.2
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	91.5	88.1
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	102	##[2]
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	100	##[2]
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	98.1	##[2]
Surrogate 13C8 PFOS	%		*111*	*108 | 99.2*	*108 | 90.4*	*96.1*	*90.3*
Surrogate 13C2 PFOA	%		*95.9*	*107 | 98.8*	*107 | 101*	*104*	*94.3*
Extraction Internal Standard 13C3 PFBS	%		*101*	*83.3 | 85.6 | 2.77*	*83.3 | 88.6 | 6.19*	[NA]	[NA]
Extraction Internal Standard 18O2 PFHxS	%		*106*	*93.9 | 98.4 | 4.71*	*93.9 | 92.6 | 1.37*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOS	%		*85.1*	*72.8 | 71.8 | 1.40*	*72.8 | 81.9 | 11.7*	[NA]	[NA]
Extraction Internal Standard 13C4 PFBA	%		*95.7*	*58.3 | 50.1 | 15.1*	*58.3 | 70.9 | 19.5*	[NA]	[NA]
Extraction Internal Standard 13C3 PFPeA	%		*99.8*	*72.2 | 70.3 | 2.71*	*72.2 | 78.9 | 8.88*	[NA]	[NA]
Extraction Internal Standard 13C2 PFHxA	%		*91.2*	*71.2 | 75.2 | 5.40*	*71.2 | 73.6 | 3.27*	[NA]	[NA]
Extraction Internal Standard 13C4 PFHpA	%		*102*	*80.8 | 79.6 | 1.50*	*80.8 | 83.0 | 2.74*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOA	%		*94.4*	*68.8 | 73.5 | 6.63*	*68.8 | 75.6 | 9.43*	[NA]	[NA]
Extraction Internal Standard 13C5 PFNA	%		*90.9*	*70.8 | 72.6 | 2.48*	*70.8 | 75.9 | 6.98*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDA	%		*80.9*	*61.8 | 65.4 | 5.66*	*61.8 | 65.5 | 5.73*	[NA]	[NA]
Extraction Internal Standard 13C2 PFUnDA	%		*65.9*	*42.0 | 40.7 | 3.19 [3]*	*42.0 | 52.7 | 22.5*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDoDA	%		*78.4*	*65.8 | 63.2 | 3.98*	*65.8 | 65.8 | 0.0152*	[NA]	[NA]
Extraction Internal Standard 13C2 PFTeDA	%		*96.0*	*68.0 | 68.1 | 0.162*	*68.0 | 69.0 | 1.50*	[NA]	[NA]
Extraction Internal Standard 13C2 4:2FTS	%		*100*	*68.1 | 66.1 | 3.03*	*68.1 | 66.8 | 1.85*	[NA]	[NA]
Extraction Internal Standard 13C2 6:2FTS	%		*81.0*	*99.3 | 89.8 | 9.95*	*99.3 | 101 | 1.66*	[NA]	[NA]
Extraction Internal Standard 13C2 8:2FTS	%		*84.6*	*146 | 143 | 2.71*	*146 | 124 | 16.2*	[NA]	[NA]
Extraction Internal Standard 13C8 FOSA	%		*84.4*	*82.6 | 77.6 | 6.19*	*82.6 | 82.0 | 0.680*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSA	%		*64.8*	*46.9 | 50.8 | 7.96*	*46.9 | 55.5 | 16.7*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSA	%		*73.9*	*66.7 | 65.9 | 1.15*	*66.7 | 66.3 | 0.541*	[NA]	[NA]
Extraction Internal Standard d7 N MeFOSE	%		*94.6*	*70.3 | 73.2 | 3.98*	*70.3 | 70.0 | 0.527*	[NA]	[NA]
Extraction Internal Standard d9 N EtFOSE	%		*81.8*	*71.1 | 64.2 | 10.3*	*71.1 | 60.2 | 16.7*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSAA	%		*82.8*	*85.4 | 73.5 | 15.0*	*85.4 | 88.3 | 3.29*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSAA	%		*82.2*	*107 | 112 | 4.70*	*107 | 131 | 20.2*	[NA]	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0064

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Spike recovery is outside routine acceptance criteria (60-140%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[3]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[4]	PQL(s) has/have been raised due to interferences from analytes (other than those being tested) in sample.
[6]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.

CHAIN OF CUSTODY DOCUMENTATION

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ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 12/06/24	NAME :	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF:	TIME:	
NAME:	DATE:	NAME :	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
jayers@jbsg.com.au

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (36)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)
BH51/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X	X													X	
BH51/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	
BH51/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																	
BH52/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X							
BH52/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	
BH52/3	0.7		Soil	12/06/2024		1 Jar	1																X	
BH53/1	0-0.2		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X							
BH53/2	0.2-0.3		Soil	12/06/2024		1 Jar	1																	
BH53/3	0.5-0.7		Soil	12/06/2024		1 Jar	1											X		X		X	X	
BH53/4	0.7-1.0		Soil	12/06/2024		1 Jar	1																	
BH54/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X			X							
BH54/2	0.4-0.6		Soil	12/06/2024		1 Jar	1											X		X		X	X	
BH54/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2				X	X	X		X						X			
BH92/1	0-0.2		Soil	12/06/2024		1 Jar	1										X							
BH92/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	
BH92/3	0.7-1.0		Soil	12/06/2024		1 Jar	1																	
BH55/1	0-0.2		Soil	12/06/2024		1 Jar	1																X	
BH55/2	0.3-0.6		Soil	12/06/2024		1 Jar	1																	
BH55/3	0.9-1.0		Soil	12/06/2024		1 Jar	1								X								X	
BH56/1	0-0.2		Soil	12/06/2024		1 Jar	1										X							
BH56/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	
BH56/3	0.7-1.0		Soil	12/06/2024		1 Jar	1										X							
BH57/1	0-0.2		Soil	12/06/2024		1 Jar, 1 Asbestos bag	2							X						X		X	X	
BH57/2	0.3-0.5		Soil	12/06/2024		1 Jar	1																	
BH57/3	0.8-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X			
BH61/1	0.05-0.3		Soil	12/06/2024		1 Jar	1																X	
BH61/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																	
BH61/3	0.8-1.0		Soil	12/06/2024		1 Jar	1																	
BH63/1	0.1-0.3		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X								X							
BH63/2	0.4-0.6		Soil	12/06/2024		1 Jar	1																	
BH63/3	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X			

'NOTES
Please send SPLIT07 and SPLIT08 to Envirolab for analysis with a copy of this COC

Retd

17/6/24 8am

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: HEE0256

Date Received: 17/06/24
Time Received: 12:55
Received By: JJ 10.5°
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

10

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 4_120624	SAMPLERS: JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 12/06/24	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:		
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au		

	SAMPLE DATA					CONTAINER DATA			ANALYSIS REQUIRED															
	SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	*NOTES
	BH87/4	0.8-1.0		Soil	12/06/2024		1 Jar	1																		
	BH88/1	0-0.2		Soil	12/06/2024		1 Jar	1																		
	BH88/2	0.2-0.5		Soil	12/06/2024		1 Jar	1																		
	BH88/3	0.5-0.7		Soil	12/06/2024		1 Jar	1																X		
	BH88/4	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2				X	X	X		X		X				X				
	BH89/1	0-0.1		Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X																
	BH89/2	0.1-0.3		Soil	12/06/2024		1 Jar	1										X								
	BH89/3	0.5-0.7		Soil	12/06/2024		1 Jar	1											X		X		X	X		
	BH89/4	0.7-1.0		Soil	12/06/2024		1 Jar, 1 SPOCAS bag	2					X	X		X		X				X				
	BH90/1	0-0.1		Soil	12/06/2024		1 Jar	1																		
	BH90/2	0.1-0.4		Soil	12/06/2024		1 Jar	1																		
	BH90/3	0.7-1.0		Soil	12/06/2024		1 Jar	1										X								
	DUP07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		
	DUP08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		
	DUP09	-	-	Soil	12/06/2024		1 Jar	1																		
	DUP10	-	-	Soil	12/06/2024		1 Jar	1																		
1	SPLIT07	-	-	Soil	12/06/2024		1 Jar, 1 PFAS Jar	2		X														X		Please send to Envirolab for analysis
2	SPLIT08	-	-	Soil	12/06/2024		1 Jar, 1 Asbestos bag	2																X		Please send to Envirolab for analysis
3	SPLIT09	-	-	Soil	12/06/2024		1 Jar	1																		
4	SPLIT10	-	-	Soil	12/06/2024		1 Jar	1																		
	RB_12	-	-	Water	12/06/2024		1A, 2V,1 Metals 1 PFAS	5		X															X	
	FB_12	-	-	Water	12/06/2024		1 PFAS	1		X																
									TOTAL	13	0	3	9	7	10	16	0	17	9	2	8	9	9	20	2	

Envirolab Services Pty Ltd
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25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

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Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	4 Soil
Date Samples Received	17/06/2024
Date Instructions Received	17/06/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	24/06/2024
Date of Issue	24/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Azrin Akram, Senior Chemist Tara White, Metals Supervisor Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

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Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFF0256-01	SPLIT07	Soil	12/06/2024	17/06/2024
MFF0256-02	SPLIT08	Soil	12/06/2024	17/06/2024
MFF0256-03	SPLIT09	Soil	12/06/2024	17/06/2024
MFF0256-04	SPLIT10	Soil	12/06/2024	17/06/2024

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Volatile TRH and BTEX (Soil)

Envirolab ID	Units	PQL	MFF0256-01	MFF0256-02
Your Reference			SPLIT07	SPLIT08
Date Sampled			12/06/2024	12/06/2024
TRH C6-C9	mg/kg	25	<25	<25
TRH C6-C10	mg/kg	25	<25	<25
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25	<25
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50	<0.50
Benzene	mg/kg	0.20	<0.20	<0.20
Toluene	mg/kg	0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1.0	<1.0	<1.0
meta+para Xylene	mg/kg	2.0	<2.0	<2.0
ortho-Xylene	mg/kg	1.0	<1.0	<1.0
Total Xylene	mg/kg	3.0	<3.0	<3.0
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%		*86.9*	*73.0*

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Semi-volatile TRH (Soil)

Envirolab ID	Units	PQL	MFF0256-01	MFF0256-02
Your Reference			SPLIT07	SPLIT08
Date Sampled			12/06/2024	12/06/2024
TRH C10-C14	mg/kg	50	<50	<50
TRH C15-C28	mg/kg	100	<100	<100
TRH C29-C36	mg/kg	100	<100	110
Total +ve TRH C10-C36	mg/kg	50	<50	110
TRH >C10-C16	mg/kg	50	<50	<50
TRH >C10-C16 less Naphthalene F2	mg/kg	50	<50	<50
TRH >C16-C34 (F3)	mg/kg	100	<100	<100
TRH >C34-C40 (F4)	mg/kg	100	<100	180
Total +ve TRH >C10-C40	mg/kg	50	<50	180
Surrogate o-Terphenyl	%		*88.3*	*90.2*

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Polycyclic Aromatic Hydrocarbons (Soil)

Envirolab ID	Units	PQL	MFF0256-01	MFF0256-02
Your Reference			SPLIT07	SPLIT08
Date Sampled			12/06/2024	12/06/2024
Naphthalene	mg/kg	0.10	<0.10	<0.10
Acenaphthylene	mg/kg	0.10	<0.10	<0.10
Acenaphthene	mg/kg	0.10	<0.10	<0.10
Fluorene	mg/kg	0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.10	<0.10	<0.10
Anthracene	mg/kg	0.10	<0.10	<0.10
Fluoranthene	mg/kg	0.10	0.16	0.11
Pyrene	mg/kg	0.10	0.17	0.13
Benzo(a)anthracene	mg/kg	0.10	<0.10	<0.10
Chrysene	mg/kg	0.10	0.10	<0.10
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20	<0.20
Benzo(a)pyrene	mg/kg	0.050	0.099	0.089
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	<0.10
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	<0.10
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	<0.10
Total +ve PAH	mg/kg	0.050	0.53	0.33
Benzo(a)pyrene TEQ calc zero	mg/kg	0.50	<0.50	<0.50
Benzo(a)pyrene TEQ calc Half	mg/kg	0.50	<0.50	<0.50
Benzo(a)pyrene TEQ calc PQL	mg/kg	0.50	<0.50	<0.50
Surrogate p-Terphenyl-D14	%		*107*	*99.7*

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Acid Extractable Metals (Soil)

Envirolab ID	Units	PQL	MFF0256-01	MFF0256-02
Your Reference			SPLIT07	SPLIT08
Date Sampled			12/06/2024	12/06/2024
Arsenic	mg/kg	4.0	6.9	4.3
Cadmium	mg/kg	0.40	<0.40	<0.40
Chromium	mg/kg	1.0	13	12
Copper	mg/kg	1.0	18	13
Mercury	mg/kg	0.10	<0.10	<0.10
Nickel	mg/kg	1.0	15	5.6
Lead	mg/kg	1.0	10	16
Zinc	mg/kg	1.0	22	78

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Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	MFF0256-01	MFF0256-02
Your Reference			SPLIT07	SPLIT08
Date Sampled			12/06/2024	12/06/2024
Moisture	%	0.10	5.2	5.2

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PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFF0256-01
Your Reference			SPLIT07
Date Sampled			12/06/2024
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	<0.10
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	<0.10
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<0.50
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<1.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20
Surrogate 13C8 PFOS	%		*116*
Surrogate 13C2 PFOA	%		*113*
Total +ve PFHxS+PFOS	µg/kg	0.10	<0.10
Total +ve PFOA+PFOS	µg/kg	0.10	<0.10
Total +ve PFAS	µg/kg	0.10	<0.10
Extraction Internal Standard 13C3 PFBS	%		*74.7*
Extraction Internal Standard 18O2 PFHxS	%		*80.6*
Extraction Internal Standard 13C4 PFOS	%		*78.8*
Extraction Internal Standard 13C4 PFBA	%		*80.7*
Extraction Internal Standard 13C3 PFPeA	%		*83.2*
Extraction Internal Standard 13C2 PFHxA	%		*85.6*
Extraction Internal Standard 13C4 PFHpA	%		*80.0*
Extraction Internal Standard 13C4 PFOA	%		*77.3*
Extraction Internal Standard 13C5 PFNA	%		*79.8*
Extraction Internal Standard 13C2 PFDA	%		*83.2*

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PFAS Extended List (Soil)

Envirolab ID	Units	PQL	MFF0256-01
Your Reference			SPLIT07
Date Sampled			12/06/2024
Extraction Internal Standard 13C2 PFUnDA	%		*76.8*
Extraction Internal Standard 13C2 PFDoDA	%		*89.6*
Extraction Internal Standard 13C2 PFTeDA	%		*100*
Extraction Internal Standard 13C2 4:2FTS	%		*85.5*
Extraction Internal Standard 13C2 6:2FTS	%		*92.0*
Extraction Internal Standard 13C2 8:2FTS	%		*119*
Extraction Internal Standard 13C8 FOSA	%		*93.4*
Extraction Internal Standard d3 N MeFOSA	%		*76.7*
Extraction Internal Standard d5 N EtFOSA	%		*81.7*
Extraction Internal Standard d7 N MeFOSE	%		*93.0*
Extraction Internal Standard d9 N EtFOSE	%		*89.2*
Extraction Internal Standard d3 N MeFOSAA	%		*85.1*
Extraction Internal Standard d5 N EtFOSAA	%		*107*

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Method Summary

Method ID	Methodology Summary
INORG-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
METALS-020	Determination of various metals by ICP-OES.
METALS-021	Determination of Mercury by Cold Vapour AAS.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFF0256

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	24/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFF0256

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
sTRH | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
PAH | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
Metals | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
Metals-Hg | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
Moisture | Soil	1-2	12/06/2024	18/06/2024	20/06/2024	Yes
PFAS EXT-ISTD | Soil	1	12/06/2024	18/06/2024	21/06/2024	Yes
PFAS-Extended | Soil	1	12/06/2024	18/06/2024	21/06/2024	Yes

Outliers: Duplicates

METALS-020|Acid Extractable Metals (Soil)| Batch BFF2482

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF2482-DUP1#	DUP1	Chromium	40.00	52.9[5]
BFF2482-DUP3#	DUP3	Arsenic	40.00	200[6]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil)| Batch BFF2484

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF2484-DUP3#	DUP3	Benzo(a)pyrene	50.00	200[6]
BFF2484-DUP3#	DUP3	Benzo(g,h,i)perylene	50.00	200[6]
BFF2484-DUP3#	DUP3	Chrysene	50.00	200[6]
BFF2484-DUP3#	DUP3	Fluoranthene	50.00	200[6]
BFF2484-DUP3#	DUP3	Pyrene	50.00	200[6]

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil)| Batch BFF2483

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF2483-DUP1#	DUP1	Naphthalene (value used in F2 calc)	50.00	162[4][7]

Data Quality Assessment Summary MFF0256

Outliers: Matrix Spike

ORG-020|Semi-volatile TRH (Soil)| Batch BFF2484

Sample ID	Analyte	% Limits	% Recovery
BFF2484-MS1#	o-Terphenyl	60 - 140	##[3]
BFF2484-MS1#	TRH >C10-C16	60 - 140	##[1]
BFF2484-MS1#	TRH >C16-C34 (F3)	60 - 140	##[1]
BFF2484-MS1#	TRH >C34-C40 (F4)	60 - 140	##[1]
BFF2484-MS1#	TRH C10-C14	60 - 140	##[1]
BFF2484-MS1#	TRH C15-C28	60 - 140	##[1]
BFF2484-MS1#	TRH C29-C36	60 - 140	##[1]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil)| Batch BFF2484

Sample ID	Analyte	% Limits	% Recovery
BFF2484-MS2#	Acenaphthene	60 - 140	##[2]
BFF2484-MS2#	Benzo(a)pyrene	60 - 140	##[2]
BFF2484-MS2#	Chrysene	60 - 140	##[2]
BFF2484-MS2#	Fluoranthene	60 - 140	##[2]
BFF2484-MS2#	Fluorene	60 - 140	##[2]
BFF2484-MS2#	Naphthalene	60 - 140	##[2]
BFF2484-MS2#	Phenanthrene	60 - 140	##[2]
BFF2484-MS2#	Pyrene	60 - 140	##[2]

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil)| Batch BFF2483

Sample ID	Analyte	% Limits	% Recovery
BFF2483-MS2#	Toluene	60 - 140	##[2]

Quality Control MFF0256

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil) | Batch BFF2483

Analyte	Units	PQL	Blank	DUP1 BFF2483-DUP1# Samp | QC | RPD %	DUP2 BFF2483-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2483-MS2#
TRH C6-C9	mg/kg	25	<25	<250 | <250 | [NA] [4]	<25 | <25 | [NA]	87.6	##[2]
TRH C6-C10	mg/kg	25	<25	<250 | <250 | [NA] [4]	<25 | <25 | [NA]	89.9	##[2]
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25	<250 | <250 | [NA] [4]	<25 | <25 | [NA]	[NA]	[NA]
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50	<5.0 | <5.0 | [NA] [4]	<0.50 | <0.50 | [NA]	[NA]	[NA]
Benzene	mg/kg	0.20	<0.20	<2.0 | <2.0 | [NA] [4]	<0.20 | <0.20 | [NA]	90.4	##[2]
Toluene	mg/kg	0.50	<0.50	<5.0 | <5.0 | [NA] [4]	<0.50 | <0.50 | [NA]	92.0	##[2]
Ethylbenzene	mg/kg	1.0	<1.0	<10 | <10 | [NA] [4]	<1.0 | <1.0 | [NA]	98.7	##[2]
meta+para Xylene	mg/kg	2.0	<2.0	<20 | <20 | [NA] [4]	<2.0 | <2.0 | [NA]	102	##[2]
ortho-Xylene	mg/kg	1.0	<1.0	<10 | <10 | [NA] [4]	<1.0 | <1.0 | [NA]	98.7	##[2]
Total Xylene	mg/kg	3.0	<3.0	<30 | <30 | [NA] [4]	<3.0 | <3.0 | [NA]	[NA]	[NA]
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0	10.4 | 99.5 | 162 [4][7]	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	*%*		*72.7*	*83.9 | 123*	*72.5 | 69.4*	*71.5*	*106*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Soil) | Batch BFF2484

Analyte	Units	PQL	Blank	DUP1 BFF2484-DUP1# Samp | QC | RPD %	DUP2 BFF2484-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2484-MS1#
TRH C10-C14	mg/kg	50	<50	577 | 551 | 4.60		120	##[1]
TRH C15-C28	mg/kg	100	<100	8500 | 8170 | 4.00		95.8	##[1]
TRH C29-C36	mg/kg	100	<100	1850 | 2080 | 12.0		114	##[1]
TRH >C10-C16	mg/kg	50	<50	2090 | 1930 | 7.96		90.9	##[1]
TRH >C16-C34 (F3)	mg/kg	100	<100	8200 | 8170 | 0.358		99.0	##[1]
TRH >C34-C40 (F4)	mg/kg	100	<100	<1000 | 1100 | 30.9		99.2	##[1]
Surrogate o-Terphenyl	*%*		*88.7*	*##|##[NA] [3]*		*93.1*	*##[3]*

Analyte	Units	PQL	Blank	DUP3 BFF2484-DUP3# Samp | QC | RPD %	DUP4 BFF2484-DUP4# Samp | QC | RPD %	LCS %
TRH C10-C14	mg/kg	50		163 | 152 | 7.02		[NA]
TRH C15-C28	mg/kg	100		528 | 486 | 8.28		[NA]
TRH C29-C36	mg/kg	100		172 | 199 | 14.7		[NA]
TRH >C10-C16	mg/kg	50		291 | 275 | 5.82		[NA]
TRH >C16-C34 (F3)	mg/kg	100		481 | 457 | 5.10		[NA]
TRH >C34-C40 (F4)	mg/kg	100		226 | 260 | 13.9		[NA]
Surrogate o-Terphenyl	*%*			*85.8 | 87.4*		*[NA]*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0256

ORG-022_PAH | Polycyclic Aromatic Hydrocarbons (Soil) | Batch BFF2484

Analyte	Units	PQL	Blank	DUP1 BFF2484-DUP1# Samp | QC | RPD %	DUP2 BFF2484-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2484-MS2#
Naphthalene	mg/kg	0.10	<0.10	17.3 | 18.9 | 9.09 [4]		98.4	##[2]
Acenaphthylene	mg/kg	0.10	<0.10	69.5 | 58.0 | 17.9 [4]		[NA]	[NA]
Acenaphthene	mg/kg	0.10	<0.10	27.3 | 22.5 | 19.3 [4]		98.9	##[2]
Fluorene	mg/kg	0.10	<0.10	97.3 | 82.0 | 17.1 [4]		95.6	##[2]
Phenanthrene	mg/kg	0.10	<0.10	327 | 275 | 17.0 [4]		96.1	##[2]
Anthracene	mg/kg	0.10	<0.10	97.7 | 81.4 | 18.2 [4][7]		[NA]	[NA]
Fluoranthene	mg/kg	0.10	<0.10	195 | 177 | 10.1 [4]		103	##[2]
Pyrene	mg/kg	0.10	<0.10	276 | 237 | 15.1 [4]		110	##[2]
Benzo(a)anthracene	mg/kg	0.10	<0.10	72.4 | 65.5 | 10.0 [4]		[NA]	[NA]
Chrysene	mg/kg	0.10	<0.10	78.9 | 72.9 | 7.79 [4]		109	##[2]
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20	88.4 | 82.4 | 6.98 [4]		[NA]	[NA]
Benzo(a)pyrene	mg/kg	0.050	<0.050	78.1 | 72.2 | 7.86 [4]		110	##[2]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	39.6 | 38.3 | 3.24 [4]		[NA]	[NA]
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	12.4 | 11.9 | 4.19 [4]		[NA]	[NA]
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	44.5 | 42.8 | 3.84 [4]		[NA]	[NA]
Surrogate p-Terphenyl-D14	*%*		*105*	*136 / 132*		*105*	*122*

Analyte	Units	PQL	Blank	DUP3 BFF2484-DUP3# Samp | QC | RPD %	DUP4 BFF2484-DUP4# Samp | QC | RPD %	LCS %
Naphthalene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Acenaphthylene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Acenaphthene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Fluorene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Phenanthrene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Anthracene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Fluoranthene	mg/kg	0.1		0.198 | <0.10 | 200 [6]		[NA]
Pyrene	mg/kg	0.1		0.237 | <0.10 | 200 [6]		[NA]
Benzo(a)anthracene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Chrysene	mg/kg	0.1		0.111 | <0.10 | 200 [6]		[NA]
Benzo(b,j,k)fluoranthene	mg/kg	0.2		<0.20 | <0.20 | [NA]		[NA]
Benzo(a)pyrene	mg/kg	0.05		0.122 | <0.050 | 200 [6]		[NA]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Dibenzo(a,h)anthracene	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Benzo(g,h,i)perylene	mg/kg	0.1		0.111 | <0.10 | 200 [6]		[NA]
Surrogate p-Terphenyl-D14	*%*			*107 / 102*		*[NA]*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0256

METALS-020|Acid Extractable Metals (Soil) | Batch BFF2482

Analyte	Units	PQL	Blank	DUP1 BFF2482-DUP1# Samp | QC | RPD %	DUP2 BFF2482-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2482-MS1#
Arsenic	mg/kg	4.0	<4.0	6.02 | 5.33 | 12.2		104	111
Cadmium	mg/kg	0.40	<0.40	<0.40 | <0.40 | [NA]		106	94.8
Chromium	mg/kg	1.0	<1.0	43.2 | 25.1 | 52.9 [5]		103	108
Copper	mg/kg	1.0	<1.0	37.9 | 28.7 | 27.7		96.3	113
Lead	mg/kg	1.0	<1.0	97.1 | 76.2 | 24.1		101	104
Mercury	mg/kg	0.10	<0.10	0.801 | 0.708 | 12.4		102	109
Nickel	mg/kg	1.0	<1.0	16.5 | 13.5 | 19.7		99.4	94.6
Zinc	mg/kg	1.0	<1.0	148 | 109 | 30.2		107	96.6

Analyte	Units	PQL	Blank	DUP3 BFF2482-DUP3# Samp | QC | RPD %	DUP4 BFF2482-DUP4# Samp | QC | RPD %	LCS %
Arsenic	mg/kg	4		4.82 | <4.0 | 200 [6]		[NA]
Cadmium	mg/kg	0.4		<0.40 | <0.40 | [NA]		[NA]
Chromium	mg/kg	1		14.3 | 13.0 | 9.59		[NA]
Copper	mg/kg	1		10.4 | 7.45 | 33.4		[NA]
Lead	mg/kg	1		9.66 | 6.49 | 39.2		[NA]
Mercury	mg/kg	0.1		<0.10 | <0.10 | [NA]		[NA]
Nickel	mg/kg	1		7.09 | 6.34 | 11.2		[NA]
Zinc	mg/kg	1		19.1 | 15.9 | 18.8		[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-008|Inorganics - Moisture (Soil) | Batch BFF2476

Analyte	Units	PQL	Blank	DUP1 BFF2476-DUP1# Samp | QC | RPD %	DUP2 BFF2476-DUP2# Samp | QC | RPD %	LCS %
Moisture	%	0.1		11.9 | 15.3 | 25.5	13.2 | 14.6 | 10.6	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0256

ORG-029|PFAS Extended List (Soil) | Batch BFF2481

Analyte	Units	PQL	Blank	DUP1 MFF0256-01 Samp | QC | RPD %	DUP2 MFF0256-01 Samp | QC | RPD %	LCS %	Spike % MFF0256-01
Perfluorobutanesulfonic acid (PFBS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	84.1	89.5
Perfluoropentanesulfonic acid (PFPeS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	106	124
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	99.1	108
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	94.8	109
Perfluorooctanesulfonic acid (PFOS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	97.7	89.7
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	118	99.1
Perfluorobutanoic acid (PFBA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	100	107
Perfluoropentanoic acid (PFPeA)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	114	114
Perfluorohexanoic acid (PFHxA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	114	110
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	102	106
Perfluorooctanoic acid (PFOA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	99.1	106
Perfluorononanoic acid (PFNA)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	103	100
Perfluorodecanoic acid (PFDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	103	122
Perfluoroundecanoic acid (PFUnDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	97.0	103
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	98.3	109
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	<0.50 | <0.50 | [NA]	103	114
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	95.1	103
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	88.0	94.2
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	101	123
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	116	104
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	122	140
Perfluorooctane sulfonamide (FOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	102	117
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	94.8	100
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	94.9	94.1
N-Methyl perfluorooctane sulfonamidoethanol	µg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	108	140
N-Ethyl perfluorooctane sulfonamidoethanol	µg/kg	5.0	<5.0	<5.0 | <5.0 | [NA]	<5.0 | <5.0 | [NA]	102	110
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	107	130
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	<0.20 | <0.20 | [NA]	72.3	85.3
Surrogate 13C8 PFOS	%		*101*	*116 | 110*	*116 | 118*	*116*	*123*
Surrogate 13C2 PFOA	%		*105*	*113 | 109*	*113 | 112*	*109*	*105*
Extraction Internal Standard 13C3 PFBS	%		*95.6*	*74.7 | 83.0 | 10.4*	*74.7 | 87.7 | 16.0*	[NA]	[NA]
Extraction Internal Standard 18O2 PFHxS	%		*96.5*	*80.6 | 84.0 | 4.07*	*80.6 | 76.5 | 5.24*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOS	%		*93.8*	*78.8 | 81.6 | 3.53*	*78.8 | 76.3 | 3.15*	[NA]	[NA]
Extraction Internal Standard 13C4 PFBA	%		*86.8*	*80.7 | 81.2 | 0.593*	*80.7 | 80.3 | 0.485*	[NA]	[NA]
Extraction Internal Standard 13C3 PFPeA	%		*88.4*	*83.2 | 82.7 | 0.531*	*83.2 | 82.7 | 0.567*	[NA]	[NA]
Extraction Internal Standard 13C2 PFHxA	%		*90.9*	*85.6 | 89.5 | 4.47*	*85.6 | 82.4 | 3.79*	[NA]	[NA]
Extraction Internal Standard 13C4 PFHpA	%		*93.4*	*80.0 | 85.5 | 6.54*	*80.0 | 78.6 | 1.79*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOA	%		*87.7*	*77.3 | 82.1 | 6.03*	*77.3 | 77.7 | 0.568*	[NA]	[NA]
Extraction Internal Standard 13C5 PFNA	%		*91.8*	*79.8 | 78.8 | 1.34*	*79.8 | 75.4 | 5.71*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDA	%		*96.0*	*83.2 | 91.1 | 9.03*	*83.2 | 101 | 19.0*	[NA]	[NA]
Extraction Internal Standard 13C2 PFUnDA	%		*85.9*	*76.8 | 77.4 | 0.778*	*76.8 | 71.8 | 6.73*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDoDA	%		*88.7*	*89.6 | 78.0 | 14.0*	*89.6 | 86.0 | 4.17*	[NA]	[NA]
Extraction Internal Standard 13C2 PFTeDA	%		*103*	*100 | 98.3 | 2.14*	*100 | 101 | 0.189*	[NA]	[NA]
Extraction Internal Standard 13C2 4:2FTS	%		*119*	*85.5 | 88.0 | 2.86*	*85.5 | 93.8 | 9.26*	[NA]	[NA]
Extraction Internal Standard 13C2 6:2FTS	%		*98.9*	*92.0 | 89.7 | 2.59*	*92.0 | 108 | 15.8*	[NA]	[NA]
Extraction Internal Standard 13C2 8:2FTS	%		*90.0*	*119 | 115 | 3.25*	*119 | 107 | 10.6*	[NA]	[NA]
Extraction Internal Standard 13C8 FOSA	%		*90.2*	*93.4 | 94.6 | 1.23*	*93.4 | 93.0 | 0.504*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSA	%		*81.3*	*76.7 | 86.1 | 11.5*	*76.7 | 79.1 | 3.09*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSA	%		*80.4*	*81.7 | 82.7 | 1.23*	*81.7 | 70.8 | 14.4*	[NA]	[NA]
Extraction Internal Standard d7 N MeFOSE	%		*112*	*93.0 | 97.5 | 4.77*	*93.0 | 92.0 | 1.09*	[NA]	[NA]
Extraction Internal Standard d9 N EtFOSE	%		*88.4*	*89.2 | 90.8 | 1.80*	*89.2 | 78.1 | 13.2*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSAA	%		*89.6*	*85.1 | 77.6 | 9.18*	*85.1 | 82.0 | 3.73*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSAA	%		*93.1*	*107 | 88.3 | 19.0*	*107 | 97.7 | 8.94*	[NA]	[NA]

Quality Control MFF0256

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Spike recovery is outside routine acceptance criteria (60-140%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[3]	Surrogate recovery is outside routine acceptance criteria (60-140%) as a result of the high concentration of analyte(s) in the sample.
[4]	PQL has been raised due to matrix requiring dilution
[5]	Duplicate analysis precision is/are outside acceptable %RPD, re-analysis indicates possible sample heterogeneity.
[6]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.
[7]	The laboratory duplicate RPD acceptance criteria has been exceeded. Results are accepted due to the inhomogeneous nature of the sample.

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MFF028.0

Date Received: 18/6/24
Time Received: 12PM
Received By: AG
Temp: Cool/Ambient 12.5°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

6

L.O

18/6
8:00
Am

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 140 229 479 · ABN 83 140 229 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch2_140624	SAMPLERS: AB / JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Overnight
NAME: Jack Ayers	DATE: 14/06/24	NAME:	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30pm	OF:	TIME:	
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED		

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
layers@jbsg.com.au
abowne@jbsg.com.au

SAMPLE DATA						CONTAINER DATA			PFAS (38)	B10A (TRH/BTEX, PAH, OCP's, PCBs, HM8)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane	BR (TRH/BTEX/M8)	BT (TRH/BTEX/PAH/M8)						NOTES
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
CGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								Please send SPLIT01 and SPLIT02 to Envirolab for analysis with a copy of this COC
CGW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
CGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
FGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
FGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW05	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW06	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW07	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
DUP01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X						
DUP02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																
SPLIT01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X						Please send to Envirolab for analysis
SPLIT02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																Please send to Envirolab for analysis
RB02	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS	5		X										X						
TB02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																
								TOTAL	17	11	11	11	11	11	13	11	11	1	2	0	0	0	0	0	

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Certificate of Analysis MFF0280

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	2 Water
Date Samples Received	18/06/2024
Date Instructions Received	18/06/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	25/06/2024
Date of Issue	25/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Azrin Akram, Senior Chemist Chaminda Gunasekara, Inorganics Supervisor Tara White, Metals Supervisor Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

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Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFF0280-01	SPLIT01	Water	14/06/2024	18/06/2024
MFF0280-02	SPLIT02	Water	14/06/2024	18/06/2024

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Volatile TRH and BTEX (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
TRH C6-C9	µg/L	10	<50
TRH C6-C10	µg/L	10	<50
TRH C6-C10 less BTEX (F1)	µg/L	10	<50
Methyl tert butyl ether (MTBE)	µg/L	1.0	<5.0
Benzene	µg/L	1.0	<5.0
Toluene	µg/L	1.0	<5.0
Ethylbenzene	µg/L	1.0	<5.0
meta+para Xylene	µg/L	2.0	<10
ortho-Xylene	µg/L	1.0	<5.0
Total Xylene	µg/L	3.0	<15
Naphthalene (value used in F2 calc)	µg/L	1.0	<5.0
Surrogate Dibromofluoromethane	%		*70.4*
Surrogate Toluene-D8	%		*111*
Surrogate 4-Bromofluorobenzene	%		*110*

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Semi-volatile TRH (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
TRH C10-C14	µg/L	50	260
TRH C15-C28	µg/L	100	430
TRH C29-C36	µg/L	100	<100
Total +ve TRH C10-C36	µg/L	50	690
TRH >C10-C16	µg/L	50	270
TRH >C10-C16 less Naphthalene F2	µg/L	50	270
TRH >C16-C34 (F3)	µg/L	100	400
TRH >C34-C40 (F4)	µg/L	100	<100
Total +ve TRH >C10-C40	µg/L	50	670
Surrogate o-Terphenyl	%		*38.3 [2]*

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Polycyclic Aromatic Hydrocarbons (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Naphthalene	µg/L	0.10	1.8
Acenaphthylene	µg/L	0.10	<0.10
Acenaphthene	µg/L	0.10	<0.10
Fluorene	µg/L	0.10	<0.10
Phenanthrene	µg/L	0.10	<0.10
Anthracene	µg/L	0.10	<0.10
Fluoranthene	µg/L	0.10	<0.10
Pyrene	µg/L	0.10	<0.10
Benzo(a)anthracene	µg/L	0.10	<0.10
Chrysene	µg/L	0.10	<0.10
Benzo(b,j,k)fluoranthene	µg/L	0.20	<0.20
Benzo(a)pyrene	µg/L	0.10	<0.10
Indeno(1,2,3-c,d)pyrene	µg/L	0.10	<0.10
Dibenzo(a,h)anthracene	µg/L	0.10	<0.10
Benzo(g,h,i)perylene	µg/L	0.10	<0.10
Total +ve PAH	µg/L	0.10	1.8
Surrogate p-Terphenyl-D14	%		*40.7 [3]*

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Dissolved Low Level Metals (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Arsenic	µg/L	1.0	120
Cadmium	µg/L	0.10	<0.50
Chromium	µg/L	1.0	19
Copper	µg/L	1.0	<5.0
Mercury	µg/L	0.050	<0.50
Nickel	µg/L	1.0	360
Lead	µg/L	1.0	<5.0
Zinc	µg/L	1.0	<5.0

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Inorganics - Cyanide Species and Similar (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Total Cyanide	mg/L	0.0040	0.011

Certificate of Analysis MFF0280

PFAS Extended List (Water)

Envirolab ID	Units	PQL	MFF0280-01	MFF0280-02
Your Reference			SPLIT01	SPLIT02
Date Sampled			14/06/2024	14/06/2024
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.10 [5]	0.76 [5]
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorobutanoic acid (PFBA)	µg/L	0.020	<0.20 [5]	<0.40 [5]
Perfluoropentanoic acid (PFPeA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorodecanoic acid (PFDA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorododecanoic acid (PFDoDA)	µg/L	0.050	<0.50 [5]	<0.50 [5]
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.50	<5.0 [5]	<5.0 [5]
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorooctane sulfonamide (FOSA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.50 [5]	<0.50 [5]
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.50 [5]	<0.50 [5]
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<5.0 [5]	<5.0 [5]
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.20 [5]	<0.20 [5]
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.20 [5]	<0.20 [5]
Surrogate 13C8 PFOS	%		*96.6 [5]*	*94.2 [5]*
Surrogate 13C2 PFOA	%		*96.3 [5]*	*97.8 [5]*
Total +ve PFHxS+PFOS	µg/L	0.010	<0.10	<0.10
Total +ve PFOA+PFOS	µg/L	0.010	<0.10	<0.10
Total +ve PFAS	µg/L	0.010	<0.10	0.76
Extraction Internal Standard 13C3 PFBS	%		*121*	*121*
Extraction Internal Standard 18O2 PFHxS	%		*111*	*109*
Extraction Internal Standard 13C4 PFOS	%		*121*	*121*
Extraction Internal Standard 13C4 PFBA	%		*71.3*	*40.2 [4]*
Extraction Internal Standard 13C3 PFPeA	%		*97.1*	*91.8*
Extraction Internal Standard 13C2 PFHxA	%		*111*	*100*
Extraction Internal Standard 13C4 PFHpA	%		*119*	*113*
Extraction Internal Standard 13C4 PFOA	%		*132*	*119*
Extraction Internal Standard 13C5 PFNA	%		*129*	*125*
Extraction Internal Standard 13C2 PFDA	%		*133*	*136*

Certificate of Analysis MFF0280

PFAS Extended List (Water)

Envirolab ID	Units	PQL	MFF0280-01	MFF0280-02
Your Reference			SPLIT01	SPLIT02
Date Sampled			14/06/2024	14/06/2024
Extraction Internal Standard 13C2 PFUnDA	%		*139*	*151 [4]*
Extraction Internal Standard 13C2 PFDoDA	%		*130*	*132*
Extraction Internal Standard 13C2 PFTeDA	%		*120*	*129*
Extraction Internal Standard 13C2 4:2FTS	%		*107*	*117*
Extraction Internal Standard 13C2 6:2FTS	%		*131*	*## [4]*
Extraction Internal Standard 13C2 8:2FTS	%		*160 [4]*	*## [4]*
Extraction Internal Standard 13C8 FOSA	%		*144*	*135*
Extraction Internal Standard d3 N MeFOSA	%		*76.5*	*71.3*
Extraction Internal Standard d5 N EtFOSA	%		*114*	*115*
Extraction Internal Standard d7 N MeFOSE	%		*118*	*123*
Extraction Internal Standard d9 N EtFOSE	%		*119*	*125*
Extraction Internal Standard d3 N MeFOSAA	%		*150 [4]*	*## [4]*
Extraction Internal Standard d5 N EtFOSAA	%		*145*	*## [4]*

Result Comments

Identifier	Description
[2]	Surrogate recovery was low due to sample(s) emulsifying during liquid liquid extraction.
[3]	Surrogate recovery was outside routine acceptance criteria (60-140%) due to sample matrix effects. This may be due to the presence of carbon and/or other artefacts. An acceptable recovery was achieved for the LCS surrogates.
[4]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[5]	PQL has been raised due to matrix requiring dilution

Method Summary

Method ID	Methodology Summary
INORG-014	Cyanide - free, total, weak acid dissociable by segmented flow analyser (in line dialysis with colourimetric finish). Solids/Filters and sorbents are extracted in a caustic media prior to analysis. Impingers are pH adjusted as required prior to analysis. Cyanides amenable to Chlorination - samples are analysed untreated and treated with hypochlorite to assess the potential for chlorination of cyanide forms.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-022	Determination of various metals by ICP-MS.Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.Salt forms and/or anion/cation forms (e.g. FeO, PbO, ZnO, BO3) are determined stoichiometrically from the base metal concentration.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFF0280

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	25/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	No	QC Frequency Outliers Exist - See detailed list below

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFF0280

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Water	1	14/06/2024	25/06/2024	25/06/2024	Yes
sTRH | Water	1	14/06/2024	19/06/2024	19/06/2024	Yes
PAH | Water	1	14/06/2024	19/06/2024	19/06/2024	Yes
Dissolved Metals (LL) | Water	1	14/06/2024	19/06/2024	21/06/2024	Yes
Dissolved Metals (LL)-Hg | Water	1	14/06/2024	19/06/2024	24/06/2024	Yes
Cyanide - Total | Water	1	14/06/2024	25/06/2024	25/06/2024	Yes
PFAS EXT-ISTD | Water	1-2	14/06/2024	19/06/2024	20/06/2024	Yes
PFAS-Extended | Water	1-2	14/06/2024	19/06/2024	20/06/2024	Yes

Outliers: Matrix Spike

METALS-021|Dissolved Low Level Metals (Water)| Batch BFF2953

Sample ID	Analyte	% Limits	% Recovery
BFF2953-MS1#	Mercury	70 - 130	##[1]

METALS-022|Dissolved Low Level Metals (Water)| Batch BFF2912

Sample ID	Analyte	% Limits	% Recovery
BFF2912-MS1#	Zinc	70 - 130	##[1]

Data Quality Assessment Summary MFF0280

Outliers: Surrogate / Extracted Internal Standards

ORG-020|Semi-volatile TRH (Matrix)| Batch BFF2717

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	o-Terphenyl	60 - 140	38.3% [2]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Matrix)| Batch BFF2717

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	p-Terphenyl-D14	60 - 140	40.7% [3]

ORG-029|PFAS Extended List (Matrix)| Batch BFF2721

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	Extraction Internal Standard 13C2 8:2FTS	50 - 150	160 [4]
MFF0280-02	Extraction Internal Standard d5 N EtFOSAA	50 - 150	## [4]
	Extraction Internal Standard d3 N MeFOSAA	50 - 150	## [4]
	Extraction Internal Standard 13C4 PFBA	50 - 150	40.2 [4]
	Extraction Internal Standard 13C2 PFUnDA	50 - 150	151 [4]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	## [4]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	## [4]

Outliers: QC Frequency

ORG-020|Semi-volatile TRH (Water)| Batch BFF2717

Analysis	QC Type	Expected	Reported
sTRH	Duplicate	1	0
	Matrix Spike	1	0

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Water)| Batch BFF2717

Analysis	QC Type	Expected	Reported
PAH	Duplicate	1	0
	Matrix Spike	1	0

Quality Control MFF0280

ORG-023_F1_TOT|Volatile TRH and BTEX (Water) | Batch BFF3761

Analyte	Units	PQL	Blank	DUP1 BFF3761-DUP1# Samp | QC | RPD %	LCS %	Spike % BFF3761-MS1#
TRH C6-C9	µg/L	10	<10	<10 | <10 | [NA]	95.9	[NA]
TRH C6-C10	µg/L	10	<10	<10 | <10 | [NA]	89.5	[NA]
TRH C6-C10 less BTEX (F1)	µg/L	10	<10	<10 | <10 | [NA]	[NA]	[NA]
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Benzene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	120	120
Toluene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	115	115
Ethylbenzene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	96.2	96.2
meta+para Xylene	µg/L	2.0	<2.0	<2.0 | <2.0 | [NA]	99.7	99.7
ortho-Xylene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	99.1	99.1
Total Xylene	µg/L	3.0	<3.0	<3.0 | <3.0 | [NA]	[NA]	[NA]
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate Dibromofluoromethane	*%*		*101*	*109 | 109*	*106*	*107*
Surrogate Toluene-D8	*%*		*109*	*110 | 110*	*111*	*109*
Surrogate 4-Bromofluorobenzene	*%*		*107*	*110 | 111*	*113*	*112*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Water) | Batch BFF2717

Analyte	Units	PQL	Blank	LCS %
TRH C10-C14	µg/L	50	<50	83.5
TRH C15-C28	µg/L	100	<100	83.7
TRH C29-C36	µg/L	100	<100	94.3
TRH >C10-C16	µg/L	50	<50	70.7
TRH >C16-C34 (F3)	µg/L	100	<100	87.0
TRH >C34-C40 (F4)	µg/L	100	<100	78.0
Surrogate o-Terphenyl	*%*		*71.7*	*64.9*

Batch QC Comments: [6]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Water) | Batch BFF2717

Analyte	Units	PQL	Blank	LCS %
Naphthalene	µg/L	0.10	<0.10	85.3
Acenaphthylene	µg/L	0.10	<0.10	[NA]
Acenaphthene	µg/L	0.10	<0.10	90.6
Fluorene	µg/L	0.10	<0.10	93.5
Phenanthrene	µg/L	0.10	<0.10	95.4
Anthracene	µg/L	0.10	<0.10	[NA]
Fluoranthene	µg/L	0.10	<0.10	112
Pyrene	µg/L	0.10	<0.10	115
Benzo(a)anthracene	µg/L	0.10	<0.10	[NA]
Chrysene	µg/L	0.10	<0.10	101
Benzo(b,j,k)fluoranthene	µg/L	0.20	<0.20	[NA]
Benzo(a)pyrene	µg/L	0.10	<0.10	103
Indeno(1,2,3-c,d)pyrene	µg/L	0.10	<0.10	[NA]
Dibenzo(a,h)anthracene	µg/L	0.10	<0.10	[NA]
Benzo(g,h,i)perylene	µg/L	0.10	<0.10	[NA]
Surrogate p-Terphenyl-D14	*%*		*121*	*112*

Batch QC Comments: [6]

Quality Control MFF0280

METALS-022|Dissolved Low Level Metals (Water) | Batch BFF2912

Analyte	Units	PQL	Blank	DUP1 BFF2912-DUP1# Samp | QC | RPD %	DUP2 BFF2912-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2912-MS1#
Arsenic	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	374 | 379 | 1.27	108	99.8
Cadmium	µg/L	0.10	<0.10	<0.10 | <0.10 | [NA]	2.44 | 2.44 | 0.00	113	99.8
Chromium	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	3.78 | 3.56 | 5.99	109	97.3
Copper	µg/L	1.0	<1.0	2.52 | 2.26 | 10.9	36.7 | 36.7 | 0.109	111	99.5
Lead	µg/L	1.0	<1.0	1.88 | 1.87 | 0.533	103 | 102 | 0.604	102	80.3
Nickel	µg/L	1.0	<1.0	3.71 | 3.11 | 17.6	21.1 | 21.5 | 1.88	110	99.4
Zinc	µg/L	1.0	<1.0	12.0 | 11.5 | 4.60	169 | 170 | 0.165	109	##[1]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-021|Dissolved Low Level Metals (Water) | Batch BFF2953

Analyte	Units	PQL	Blank	DUP1 BFF2953-DUP1# Samp | QC | RPD %	DUP2 BFF2953-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2953-MS1#
Mercury	µg/L	0.050	<0.050	<0.050 | <0.050 | [NA]	<0.050 | <0.050 | [NA]	103	##[1]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-014|Inorganics - Cyanide Species and Similar (Water) | Batch BFF3913

Analyte	Units	PQL	Blank	DUP1 MFF0280-01 Samp | QC | RPD %	LCS %	Spike % MFF0280-01
Total Cyanide	mg/L	0.0040	<0.0040	0.0114 | 0.0127 | 11.2	98.9	73.2

Quality Control MFF0280

ORG-029|PFAS Extended List (Water) | Batch BFF2721

Analyte	Units	PQL	Blank	DUP1 MFF0280-01 Samp | QC | RPD %	LCS %	Spike % MFF0280-02
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	109	94.4
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	103	97.7
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	112	104
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	113	137
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	104	83.7
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	111	102
Perfluorobutanoic acid (PFBA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	70.0
Perfluoropentanoic acid (PFPeA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	79.0
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	91.7
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	103	84.9
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	84.2
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	112	89.1
Perfluorodecanoic acid (PFDA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	109	67.7
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	112	79.3
Perfluorododecanoic acid (PFDoDA)	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	112	84.1
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	111	91.2
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.50	<0.50	<5.0 | <5.0 | [NA] [5]	113	85.4
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	76.6
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	114	93.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	101	85.6
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	96.2
Perfluorooctane sulfonamide (FOSA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	106	84.9
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	105	103
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	127	113
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	99.1	88.8
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	<5.0 | <5.0 | [NA] [5]	115	88.6
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	112	64.5
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	115	84.3
Surrogate 13C8 PFOS	%		*84.9*	*96.6 | 96.7 [5]*	*92.0*	*89.9*
Surrogate 13C2 PFOA	%		*95.5*	*96.3 | 95.5 [5]*	*95.3*	*95.8*
Extraction Internal Standard 13C3 PFBS	%		*101*	*121 | 120 | 0.881*	[NA]	[NA]
Extraction Internal Standard 18O2 PFHxS	%		*97.4*	*111 | 113 | 1.74*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOS	%		*104*	*121 | 127 | 4.78*	[NA]	[NA]
Extraction Internal Standard 13C4 PFBA	%		*106*	*71.3 | 75.4 | 5.62*	[NA]	[NA]
Extraction Internal Standard 13C3 PFPeA	%		*109*	*97.1 | 102 | 5.30*	[NA]	[NA]
Extraction Internal Standard 13C2 PFHxA	%		*105*	*111 | 120 | 7.46*	[NA]	[NA]
Extraction Internal Standard 13C4 PFHpA	%		*108*	*119 | 123 | 3.37*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOA	%		*109*	*132 | 137 | 4.01*	[NA]	[NA]
Extraction Internal Standard 13C5 PFNA	%		*107*	*129 | 132 | 2.21*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDA	%		*109*	*133 | 136 | 2.31*	[NA]	[NA]
Extraction Internal Standard 13C2 PFUnDA	%		*112*	*139 | 149 | 6.35*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDoDA	%		*105*	*130 | 134 | 2.36*	[NA]	[NA]
Extraction Internal Standard 13C2 PFTeDA	%		*102*	*120 | 122 | 1.57*	[NA]	[NA]
Extraction Internal Standard 13C2 4:2FTS	%		*102*	*107 | 111 | 3.65*	[NA]	[NA]
Extraction Internal Standard 13C2 6:2FTS	%		*97.3*	*131 | 135 | 3.37*	[NA]	*##[4]*
Extraction Internal Standard 13C2 8:2FTS	%		*123*	*## | ## | [NA] [4]*	[NA]	*##[4]*
Extraction Internal Standard 13C8 FOSA	%		*107*	*144 | 148 | 2.64*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSA	%		*58.0*	*76.5 | 73.7 | 3.74*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSA	%		*91.8*	*114 | 120 | 5.03*	[NA]	[NA]
Extraction Internal Standard d7 N MeFOSE	%		*102*	*118 | 123 | 4.27*	[NA]	[NA]
Extraction Internal Standard d9 N EtFOSE	%		*98.3*	*119 | 122 | 2.45*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSAA	%		*117*	*150 | 162 | 7.65 [4]*	[NA]	*##[4]*
Extraction Internal Standard d5 N EtFOSAA	%		*110*	*145 | 155 | 6.18 [4]*	[NA]	*##[4]*

Quality Control MFF0280

QC Comments

Identifier	Description
[1]	Spike recovery is outside routine acceptance criteria (70-130%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[4]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[5]	PQL has been raised due to matrix requiring dilution
[6]	Unable to perform all QC according to our internal guidelines due to the limited amount of sample(s) available for testing.

CHAIN OF CUSTODY DOCUMENTATION

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8/4L

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: Osborne EIS	COC Reference #: Batch 5_130624	SAMPLERS: JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 13/06/24	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: PM	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au		

SAMPLE DATA						CONTAINER DATA			PFAS (30)	OCPs	R21 (EIL Cal Suite)	Organotins	SPOCAS	Asbestos (0.001% w/w)	pH	B1 (TRH/BTEX)	M8	VOCs	OPPs	PCBs	Cyanide	B14 (OCPs/OPPs)	B7 (TRH/BTEX/PAH/M8)	B6 (TRH/BTEX/M8)	'NOTES
SAMPLE ID	DEPTH		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
DUP13	-	-	Soil	13/06/2024		1 Jar	1										X								
SPLIT11	-	-	Soil	13/06/2024		1 Jar, 1 PFAS Jar	2																		
SPLIT12	-	-	Soil	13/06/2024		1 Jar	1																X		Please send to Envirolab for analysis
SPLIT13	-	-	Soil	13/06/2024		1 Jar	1										X								Please send to Envirolab for analysis
RB_13	-	-	Water	13/06/2024		1A, 2V,1 Metals 1 PFAS	5		X																
FB_13	-	-	Water	13/06/2024		1 PFAS	1		X															X	
								TOTAL	3	1	0	1	1	2	1	0	6	1	0	1	1	2	5	1	

1
2
3

ENVIROLAB
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MFF0429
Date Received: 25/6/24
Time Received: 12.40
Received By: GS
Temp: Cool/Ambient 11.1
Cooling: Ice/Icepack
Security: Intact/Broken/None

Rubyf Angelo
25-6
8:00 am

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MFF0429

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	3 Soil
Date Samples Received	25/06/2024
Date Instructions Received	25/06/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	26/06/2024
Date of Issue	26/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Tara White, Metals Supervisor Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

Certificate of Analysis MFF0429

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFF0429-01	SPLIT11	Soil	13/06/2024	25/06/2024
MFF0429-02	SPLIT12	Soil	13/06/2024	25/06/2024
MFF0429-03	SPLIT13	Soil	13/06/2024	25/06/2024

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Volatile TRH and BTEX (Soil)

Envirolab ID	Units	PQL	MFF0429-02
Your Reference			SPLIT12
Date Sampled			13/06/2024
TRH C6-C9	mg/kg	25	<25
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50
Benzene	mg/kg	0.20	<0.20
Toluene	mg/kg	0.50	<0.50
Ethylbenzene	mg/kg	1.0	<1.0
meta+para Xylene	mg/kg	2.0	<2.0
ortho-Xylene	mg/kg	1.0	<1.0
Total Xylene	mg/kg	3.0	<3.0
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0
Surrogate aaa-Trifluorotoluene	%		*122*

Certificate of Analysis MFF0429

Semi-volatile TRH (Soil)

Envirolab ID	Units	PQL	MFF0429-02
Your Reference			SPLIT12
Date Sampled			13/06/2024
TRH C10-C14	mg/kg	50	<50
TRH C15-C28	mg/kg	100	<100
TRH C29-C36	mg/kg	100	<100
Total +ve TRH C10-C36	mg/kg	50	<50
TRH >C10-C16	mg/kg	50	<50
TRH >C10-C16 less Naphthalene F2	mg/kg	50	<50
TRH >C16-C34 (F3)	mg/kg	100	<100
TRH >C34-C40 (F4)	mg/kg	100	<100
Total +ve TRH >C10-C40	mg/kg	50	<50
Surrogate o-Terphenyl	%		*82.4*

Certificate of Analysis MFF0429

Polycyclic Aromatic Hydrocarbons (Soil)

Envirolab ID	Units	PQL	MFF0429-02
Your Reference			SPLIT12
Date Sampled			13/06/2024
Naphthalene	mg/kg	0.10	<0.10
Acenaphthylene	mg/kg	0.10	<0.10
Acenaphthene	mg/kg	0.10	<0.10
Fluorene	mg/kg	0.10	<0.10
Phenanthrene	mg/kg	0.10	<0.10
Anthracene	mg/kg	0.10	<0.10
Fluoranthene	mg/kg	0.10	0.13
Pyrene	mg/kg	0.10	0.14
Benzo(a)anthracene	mg/kg	0.10	<0.10
Chrysene	mg/kg	0.10	<0.10
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20
Benzo(a)pyrene	mg/kg	0.050	0.064
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10
Total +ve PAH	mg/kg	0.050	0.33
Benzo(a)pyrene TEQ calc zero	mg/kg	0.50	<0.50
Benzo(a)pyrene TEQ calc Half	mg/kg	0.50	<0.50
Benzo(a)pyrene TEQ calc PQL	mg/kg	0.50	<0.50
Surrogate p-Terphenyl-D14	%		*116*

Certificate of Analysis MFF0429

Acid Extractable Metals (Soil)

Envirolab ID	Units	PQL	MFF0429-02	MFF0429-03
Your Reference			SPLIT12	SPLIT13
Date Sampled			13/06/2024	13/06/2024
Arsenic	mg/kg	4.0	4.8	4.2
Cadmium	mg/kg	0.40	<0.40	<0.40
Chromium	mg/kg	1.0	16	9.2
Copper	mg/kg	1.0	18	13
Mercury	mg/kg	0.10	<0.10	<0.10
Nickel	mg/kg	1.0	9.2	6.6
Lead	mg/kg	1.0	27	21
Zinc	mg/kg	1.0	44	31

Certificate of Analysis MFF0429

Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	MFF0429-02	MFF0429-03
Your Reference			SPLIT12	SPLIT13
Date Sampled			13/06/2024	13/06/2024
Moisture	%	0.10	7.5	5.0

Certificate of Analysis MFF0429

Method Summary

Method ID	Methodology Summary
INORG-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
METALS-020	Determination of various metals by ICP-OES.
METALS-021	Determination of Mercury by Cold Vapour AAS.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFF0429

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	26/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFF0429

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Soil	2	13/06/2024	25/06/2024	26/06/2024	Yes
sTRH | Soil	2	13/06/2024	25/06/2024	26/06/2024	Yes
PAH | Soil	2	13/06/2024	25/06/2024	26/06/2024	Yes
Metals | Soil	2-3	13/06/2024	25/06/2024	26/06/2024	Yes
Metals-Hg | Soil	2-3	13/06/2024	25/06/2024	26/06/2024	Yes
Moisture | Soil	2-3	13/06/2024	25/06/2024	26/06/2024	Yes

Data Quality Assessment Summary MFF0429

Outliers: Duplicates

METALS-021|Acid Extractable Metals (Soil)| Batch BFF3941

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF3941-DUP1#	DUP1	Mercury	40.00	85.2[2]
BFF3941-DUP2#	DUP2	Mercury	40.00	44.8[2]

ORG-020|Semi-volatile TRH (Soil)| Batch BFF3943

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF3943-DUP1#	DUP1	TRH >C10-C16	50.00	200[3]
BFF3943-DUP1#	DUP1	TRH >C16-C34 (F3)	50.00	68.0[4]
BFF3943-DUP1#	DUP1	TRH >C34-C40 (F4)	50.00	68.3[4]
BFF3943-DUP1#	DUP1	TRH C10-C14	50.00	200[3]
BFF3943-DUP1#	DUP1	TRH C15-C28	50.00	68.3[4]
BFF3943-DUP1#	DUP1	TRH C29-C36	50.00	67.0[4]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil)| Batch BFF3943

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BFF3943-DUP1#	DUP1	Anthracene	50.00	200[3]
BFF3943-DUP1#	DUP1	Benzo(a)anthracene	50.00	93.6[3]
BFF3943-DUP1#	DUP1	Benzo(a)pyrene	50.00	80.3[3]
BFF3943-DUP1#	DUP1	Benzo(b,j,k)fluoranthene	50.00	82.8[3]
BFF3943-DUP1#	DUP1	Benzo(g,h,i)perylene	50.00	74.8[3]
BFF3943-DUP1#	DUP1	Chrysene	50.00	86.3[3]
BFF3943-DUP1#	DUP1	Fluoranthene	50.00	97.9[3]
BFF3943-DUP1#	DUP1	Indeno(1,2,3-c,d)pyrene	50.00	80.8[3]
BFF3943-DUP1#	DUP1	Naphthalene	50.00	200[3]
BFF3943-DUP1#	DUP1	Phenanthrene	50.00	115[3]
BFF3943-DUP1#	DUP1	Pyrene	50.00	91.1[3]

Data Quality Assessment Summary MFF0429

Outliers: Matrix Spike

METALS-020|Acid Extractable Metals (Soil)| Batch BFF3941

Sample ID	Analyte	% Limits	% Recovery
BFF3941-MS1#	Lead	70 - 130	##[1]

ORG-020|Semi-volatile TRH (Soil)| Batch BFF3943

Sample ID	Analyte	% Limits	% Recovery
BFF3943-MS1#	TRH >C34-C40 (F4)	60 - 140	##[1]
BFF3943-MS1#	TRH C29-C36	60 - 140	##[1]

Quality Control MFF0429

ORG-023_F1_TOT|Volatile TRH and BTEX (Soil) | Batch BFF3942

Analyte	Units	PQL	Blank	DUP1 BFF3942-DUP1# Samp | QC | RPD %	LCS %	Spike % BFF3942-MS2#
TRH C6-C9	mg/kg	25	<25	<25 | <25 | [NA]	123	137
TRH C6-C10	mg/kg	25	<25	<25 | <25 | [NA]	124	123
TRH C6-C10 less BTEX (F1)	mg/kg	25	<25	<25 | <25 | [NA]	[NA]	[NA]
Methyl tert butyl ether (MTBE)	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	[NA]	[NA]
Benzene	mg/kg	0.20	<0.20	<0.20 | <0.20 | [NA]	97.6	108
Toluene	mg/kg	0.50	<0.50	<0.50 | <0.50 | [NA]	101	113
Ethylbenzene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	73.8	86.5
meta+para Xylene	mg/kg	2.0	<2.0	<2.0 | <2.0 | [NA]	78.5	91.6
ortho-Xylene	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	74.5	87.3
Total Xylene	mg/kg	3.0	<3.0	<3.0 | <3.0 | [NA]	[NA]	[NA]
Naphthalene (value used in F2 calc)	mg/kg	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	*%*		*133*	*120 | 124*	*131*	*133*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Soil) | Batch BFF3943

Analyte	Units	PQL	Blank	DUP1 BFF3943-DUP1# Samp | QC | RPD %	DUP2 BFF3943-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF3943-MS1#
TRH C10-C14	mg/kg	50	<50	55.1 | <50 | 200 [3]		113	95.1
TRH C15-C28	mg/kg	100	<100	921 | 452 | 68.3 [4]		94.0	81.7
TRH C29-C36	mg/kg	100	<100	832 | 415 | 67.0 [4]		99.6	##[1]
TRH >C10-C16	mg/kg	50	<50	67.6 | <50 | 200 [3]		86.6	76.4
TRH >C16-C34 (F3)	mg/kg	100	<100	1560 | 766 | 68.0 [4]		97.1	75.3
TRH >C34-C40 (F4)	mg/kg	100	<100	359 | 176 | 68.3 [4]		81.8	##[1]
Surrogate o-Terphenyl	*%*		*83.3*	*88.0 | 86.4*		*82.7*	*94.8*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Soil) | Batch BFF3943

Analyte	Units	PQL	Blank	DUP1 BFF3943-DUP1# Samp | QC | RPD %	DUP2 BFF3943-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF3943-MS2#
Naphthalene	mg/kg	0.10	<0.10	0.154 | <0.10 | 200 [3]		93.3	99.7
Acenaphthylene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Acenaphthene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		96.6	103
Fluorene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		93.3	109
Phenanthrene	mg/kg	0.10	<0.10	0.544 | 0.147 | 115 [3]		88.4	86.3
Anthracene	mg/kg	0.10	<0.10	0.165 | <0.10 | 200 [3]		[NA]	[NA]
Fluoranthene	mg/kg	0.10	<0.10	0.762 | 0.261 | 97.9 [3]		93.1	98.5
Pyrene	mg/kg	0.10	<0.10	0.802 | 0.300 | 91.1 [3]		98.4	103
Benzo(a)anthracene	mg/kg	0.10	<0.10	0.306 | 0.111 | 93.6 [3]		[NA]	[NA]
Chrysene	mg/kg	0.10	<0.10	0.379 | 0.150 | 86.3 [3]		93.2	95.7
Benzo(b,j,k)fluoranthene	mg/kg	0.20	<0.20	0.565 | 0.234 | 82.8 [3]		[NA]	[NA]
Benzo(a)pyrene	mg/kg	0.050	<0.050	0.362 | 0.155 | 80.3 [3]		81.5	98.6
Indeno(1,2,3-c,d)pyrene	mg/kg	0.10	<0.10	0.242 | 0.103 | 80.8 [3]		[NA]	[NA]
Dibenzo(a,h)anthracene	mg/kg	0.10	<0.10	<0.10 | <0.10 | [NA]		[NA]	[NA]
Benzo(g,h,i)perylene	mg/kg	0.10	<0.10	0.250 | 0.114 | 74.8 [3]		[NA]	[NA]
Surrogate p-Terphenyl-D14	*%*		*118*	*118 | 118*		*119*	*118*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control MFF0429

METALS-020|Acid Extractable Metals (Soil) | Batch BFF3941

Analyte	Units	PQL	Blank	DUP1 BFF3941-DUP1# Samp | QC | RPD %	DUP2 BFF3941-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF3941-MS1#
Arsenic	mg/kg	4.0	<4.0	7.91 | 6.35 | 21.9		109	##
Cadmium	mg/kg	0.40	<0.40	<0.40 | <0.40 | [NA]		112	88.6
Chromium	mg/kg	1.0	<1.0	21.5 | 19.1 | 11.7		109	108
Copper	mg/kg	1.0	<1.0	40.7 | 28.0 | 37.0		107	128
Lead	mg/kg	1.0	<1.0	149 | 109 | 30.5		108	##[1]
Mercury	mg/kg	0.10	<0.10	0.285 | 0.115 | 85.2 [2]	0.285 | 0.181 | 44.8 [2]	109	113
Nickel	mg/kg	1.0	<1.0	15.1 | 12.5 | 18.9		106	90.9
Zinc	mg/kg	1.0	<1.0	299 | 259 | 14.1		110	75.4

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-008|Inorganics - Moisture (Soil) | Batch BFF3936

Analyte	Units	PQL	Blank	DUP1 BFF3936-DUP1# Samp | QC | RPD %	LCS %
Moisture	%	0.1		19.9 | 29.8 | 40.0	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Duplicate analysis precision is/are outside acceptable %RPD, re-analysis indicates possible sample heterogeneity.
[3]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.
[4]	The laboratory duplicate RPD acceptance criteria has been exceeded. Results are accepted due to the inhomogeneous nature of the sample.

Appendix I Groundwater Well Permits

Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502167**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.507625, -34.772323** **CT6191/182, D115170A1282**

Conditions

247445	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows: CT6191/182 D115170A1282
247446	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247447	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247452	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247462	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247448	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247453	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247449	WAA-106 - Strata samples are not required.
247450	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247451	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247454	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247455	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247456	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247457	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247458	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247459	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247460	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247461	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

Activities shall not have an unacceptable detrimental impact on cultural, heritage or social values.

This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

Take note that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of the permit is guilty of an offence, and such acts or omissions may result in the variation, suspension or revocation of the permit.

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Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502164**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.503535, -34.776819** No Results

Conditions

247336	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows:
247337	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247338	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247343	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247353	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247339	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247344	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247340	WAA-106 - Strata samples are not required.
247341	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247342	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247345	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247346	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247347	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247348	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247349	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247350	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247351	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247352	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

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AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

Activities shall not have an unacceptable detrimental impact on cultural, heritage or social values.

This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

Take note that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of the permit is guilty of an offence, and such acts or omissions may result in the variation, suspension or revocation of the permit.

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Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502163**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.508469, -34.775425** No Results

Conditions

247313	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows:
247314	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247315	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247320	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247330	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247316	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247321	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247317	WAA-106 - Strata samples are not required.
247318	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247319	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247322	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247323	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247324	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247325	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247326	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247327	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247328	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247329	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

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AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

Activities shall not have an unacceptable detrimental impact on cultural, heritage or social values.

This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

Take note that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of the permit is guilty of an offence, and such acts or omissions may result in the variation, suspension or revocation of the permit.

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Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502161**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.507188, -34.76109** No Results

Conditions

247237	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows:
247238	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247239	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247274	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247284	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247240	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247275	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247271	WAA-106 - Strata samples are not required.
247272	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247273	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247276	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247277	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247278	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247279	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247280	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247281	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247282	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247283	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

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AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

Activities shall not have an unacceptable detrimental impact on cultural, heritage or social values.

This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

Take note that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of the permit is guilty of an offence, and such acts or omissions may result in the variation, suspension or revocation of the permit.

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Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502165**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.501947, -34.779830** No Results

Conditions

247359	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows:
247360	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247361	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247366	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247376	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247362	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247367	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247363	WAA-106 - Strata samples are not required.
247364	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247365	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247368	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247369	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247370	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247371	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247372	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247373	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247374	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247375	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

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AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

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This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

Take note that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of the permit is guilty of an offence, and such acts or omissions may result in the variation, suspension or revocation of the permit.

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502162**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.505448, -34.773042** No Results

Conditions

247290	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows:
247291	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247292	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247297	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247307	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247293	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247298	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247294	WAA-106 - Strata samples are not required.
247295	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247296	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247299	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247300	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247301	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247302	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247303	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247304	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247305	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247306	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

The activity must not adversely affect water-dependent ecosystems nearby.

Activities shall not have an unacceptable detrimental impact on cultural, heritage or social values.

This work may be subject to inspection by the Department's Drilling Inspectors.

If the name or contact details of the holder or their company changes, then the holder must notify this department within 21 days of the change occurring. Names and contact details can be updated online through the mywater customer portal (mywater.sa.gov.au).

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GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502166**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.505964, -34.782532** **CT6262/182, D124718A3000**

Conditions

247422	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows: CT6262/182 D124718A3000
247423	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247424	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247429	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247439	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247425	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247430	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247426	WAA-106 - Strata samples are not required.
247427	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247428	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247431	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247432	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247433	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247434	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247435	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247436	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247437	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247438	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

The authority to undertake the water affecting activity, defined in the permit, is limited to the holder of the permit and cannot be assigned to another person. If the property upon which the permit work is to be undertaken is sold prior to the commencement of any work, the new landowner must make an application for a new permit.

The well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.

The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant of this permit.

This permit is not an approval to clear native vegetation. In South Australia, native vegetation is protected by the *Native Vegetation Act 1991*. Clearance includes the draining or flooding of land, including actions that result in the substantial damage to native vegetation, this might include activities that lower the water tables and, as a result, impact on water dependent wetland communities. In most cases the clearance of native vegetation requires the consent of the Native Vegetation Council. Further information regarding native vegetation clearance approvals, is available from: http://www.environment.sa.gov.au/managing-natural-resources/native-vegetation.

It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.

The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well or the replacement or alteration of the casing, lining or screen of a well shall not adversely affect the quality of an underground water resource.

Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.

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GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Well Permit

Permit to undertake a Water Affecting Activity

Pursuant to section 112 of the Landscape South Australia Act 2019

Subject to full compliance with all the procedures, specifications and limitations contained or referred to in the conditions set out below.

Permission is hereby granted to

JBS & G Australia Pty Ltd

Permit Number:	**P-502168**
Permit Term:	**1 year(s)**
Expiry Date:	**4 June 2025**

To undertake the following water affecting activity

Activity	**Construct a new well**
Well Use	**Monitoring or Investigation**
At location	**138.506416, -34.777745** **CT6262/182, D124718A3000**

Conditions

247468	WAA-100 - The activity authorised by this permit must only be undertaken on the land identified as follows: CT6262/182 D124718A3000
247469	WAA-102 - The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
247470	WAA-103 - Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
247476	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247486	WAA-318 - The well driller must submit a Well Completion Report to the Department within 30 days of completion of each activity authorised by this well construction permit.
247477	WAA-111 - If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.
247471	WAA-105 - Water samples are required from all wells drilled in respect of this permit.
247472	WAA-106 - Strata samples are not required.
247473	WAA-107 -The licensed well driller must forward with the report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
247474	WAA-108 - All wells must be drilled vertical unless written permission is obtained from the Minister.
247475	WAA-110 - The authorised activity must be undertaken by a licensed driller.
247478	WAA-124 - If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.
247479	WAA-132 - Due to potential land contamination issues it is recommended that a Hydrogeological assessment be carried out in order to determine the long term prospects for groundwater quality and quantity in regard to the site and desired use.
247480	WAA-133 - All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
247481	WAA-134 - This permit does not authorise the taking of water from the well for any purpose other than testing.
247482	WAA-135 - A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
247483	WAA-136 - Wells are to be backfilled when no longer required for ongoing monitoring or investigation purposes.
247484	WAA-149 - Due to known soil/groundwater contamination in the sediments and aquifers above, cautions should be taken in the drilling and cementing of this well.
247485	WAA-152 - The well is not to penetrate beyond a maximum depth of 10 metres unless approved by the Regional Hydrogeologist.

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

AUTHORISATION: MINISTER FOR CLIMATE, ENVIRONMENT AND WATER

Date: 4 June 2024

GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Additional information about the site use approval

Under section 216(1)(b)(ii) of the Act, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.

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GPO Box 1047, Adelaide SA 5001 MyWatermail@sa.gov.au mywater.sa.gov.au 08 8463 6876

Appendix J Waste Disposal Documentation

76257

EPA South Australia

EPA *WasteTracker*

TRANSPORT CERTIFICATE - No. 5T00804915

Created by: Cindy Kromwyk
CA no: 5C00051392
Status: Created
CA start date: 14-Feb-2024
CA end date: 13-Feb-2025

PART 1 (this part to be completed by consignor at pickup)

CONSIGNOR

VARIOUS - PRODUCER
VARIOUS LOCATIONS SA
VARIOUS, SA 5000

Role: Producer
ABN/ACN:
ANZSIC #: 2919
Licence #: N/A

Contact: ENVIRONMENT PROTECTION A
Phone: (08) 8204 2000
Fax: N/A
Emergency: (08) 8204 2000
Email: N/A

Pickup details: As above

WASTE

See attachment for details of additional wastes transported under this TC

Waste code: N100 - Containers and drums which are contaminated with residues of substances referred to in this list
Description: Other containers cnt waste which must be tracked
Form: Solid
Proposed treatment: Chemical/Physical treatment
Contaminants: N/A

Is the asbestos amount over 10m2?: N/A
Is the asbestos temporarily transported from a transfer station to a licensed disposal facility?: N/A
SafeWork Notification #: N/A
Composition: N/A

This section is not administered by EPA - contact SafeWork SA 1300 365 255 www.safeworksa.sa.gov.au)

Dangerous goods class:
Subsidiary risk class:
UN no.:
Packaging type:
Packing group no:
No. package:

PICKUP

Waste amount at pickup: 2x205L DRUMS - (Required)
Waste amount at arrival: #LP11753
I declare that to the best of my knowledge and belief the above information is true and correct.
Name and Position (block letters) DANNY ROSENBERG - DRIVER
Signature Date 13/8/24

PART 2 - TRANSPORTER (this part to be completed by the transporter at pickup)

VEOLIA - 1251
VARIOUS LOCATIONS SA
VARIOUS, SA 5000

Licence #: 1251
Vehicle reg: XS16GV
Transport type: Road
Transit state: SA

Contact: KELLY BRAS
Phone: (08) 8343 9608
Fax : N/A
Email: kelly.bras@veolia.com

I declare that to the best of my knowledge and belief the above information is true and correct.
Name and Position (block letters) DANNY ROSENBERG - DRIVER
Signature Date 13/8/24

PART 3 - RECEIVING FACILITY (this part to be completed by the receiving facility)

VEOLIA - 2897 - KILBURN
540 CHURCHILL ROAD
KILBURN, SA 5084

Licence #: 2897
Facility ref #: N/A

Contact: KELLY BRAS
Phone: (08) 8343 9608
Fax:
Email: kelly.bras@veolia.com

ACCEPT / REJECT THE WASTE

☐ The receiving facility accepted the waste - Date accepted: ..... Date Processed: .....
☐ The receiving facility rejected the waste (complete section below)
Reason for rejection: .....
Rejected waste sent to - Name: .....
Address: .....

I declare that to the best of my knowledge and belief the above information is true and correct - complete if accepted or rejected:
Name and Position (block letters) NICK MEOLI
Signature Date 13/8/24

NOTE (including any discrepancies)

If any of the information in Parts 1 and 2 is not correct and it is not practical at the time to change the information in *WasteTracker* and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into *WasteTracker* as soon as practicable afterwards.

14.8.24

VEOLIA

Veolia Australia and New Zealand
P.O.Box 105 Enfield Plaza, SA 5085
www.veolia.com.au ABN 20 051 316 584

- ☐ Adelaide 13 29 55
- ☐ Spencer Gulf - Whyalla/ Pt Lincoln/ Pt Augusta/Pt Pirie 13 29 55
- ☐ Mt Barker 08 8398 2484
- ☐ Darwin 08 8947 8947
- ☐ Moomba 08 8675 9548

Job #	
P/O #	

76257

Cust./Name: JBS & G

13 / 8 / 24

Address: Pelican Point rd
Osborne

GROSS	
TARE	
NET	

Container Type: Collect 2x205L Drums - Samples

Dump Site: Veolia

Other: #L811783

Payment Received YES ☐ NO ☑ $ .....

CONDITIONS

1. Veolia disclaims responsibility for any damage to property resulting from the use and/or transport of their containers or vehicles on private property.
2. If a programmed service is not required 24 hours notice must be given or a charge may be rendered.
3. Containers must not be filled over the water level for health and safety reason. Veolia reserves the right to refuse to service overloaded bins.

SIGNATURE

302

VEHICLE No

4629

Appendix K Groundwater Well Survey Data

LINKUP
CONSTRUCTION SURVEYS PTY LTD

To: Kate Lough
Company: JBS&G
Phone: 8431 7113
Mob: 0403 568 564

From: Lincoln Jeffery
Phone: 0414 840 569
Email: Lincoln@linkupconstructionsurveys.com.au

Date: 21/06/2024

Monitoring wells Coordinates–
Pelican Point Road, Outer Harbor

Bore No.	Easting	Northing	Top Of PVC	Natural Surface
GW-	GDA20	GDA20	AHD	AHD
MW01	271432.557	6148508.104	3.632	3.673
MW02	271591.021	6148892.367	2.075	2.164
MW03	271691.812	6149267.487	2.917	3.005
MW04	271871.272	6149737.280	2.982	3.081
MW05	271991.083	6149057.571	2.896	3.014
MW06	271807.586	6148261.922	2.775	2.876
MW07	271922.168	6149374.321	2.929	3.010
MW08	271821.705	6148768.483	2.913	2.997

All Survey information was triangulated from the GDA20 grid system and Australian Height Datum(AHD), derived from permanent survey marks

Appendix L Groundwater Well Logs

GROUNDWATER WELL MW01

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.501947
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.77983
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 5.00 m bgl	**ELEVATION** m AHD
DRILLING DATE 06 Jun 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502165		**CHECKED BY** DO

COMPLETION Gatic **CASING** PVC100 **SCREEN INTERVAL** 2.000 - 5.000 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW01	0.5		Fill - Sandy GRAVEL, fine to coarse grained, grey brown	SM			
			1		Fill - Gravelly SAND, medium to coarse grained, brown	SM			
			1.5		Fill - Silty SAND, fine grained, pale brown/white	SM			
			2		Fill - Clayey Silty SAND, fine to coarse grained, grey brown	M			
			2.5						
			3		Silty SAND, fine to coarse grained, grey brown	M			
			3.5						
			4						
			4.5						
			5		Termination Depth at:5.00 m.				
			5.5						

produced by ESlog.ESdat.net on 01 Jul 2024

GROUNDWATER WELL MW02

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.503535
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.776819
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 4.00 m bgl	**ELEVATION** m AHD
DRILLING DATE 06 Jun 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502164		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 1.000 - 4.000 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW02	0.5 1 1.5 2 2.5 3 3.5 4		Fill - Silty SAND, fine to coarse grained, pale brown/white, with some shell grit and trace cobbles	SM			Possible dredging material
					Fill - Silty SAND, fine to coarse grained, black and white, with some green organics and shell grit	M			
					Fill - Silty SAND, fine grained, dark green brown	W			
			4.5 5 5.5		Termination Depth at:4.00 m.				

produced by ESlog.ESdat.net on 01 Jul 2024

GROUNDWATER WELL MW03

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.505448
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.773042
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 5.00 m bgl	**ELEVATION** m AHD
DRILLING DATE 06 Jun 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502162		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 2.000 - 5.000 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW03	0.5		Fill - Gravelly SAND, fine to coarse grained, yellow brown	SM			
			1		Fill - Silty CLAY, medium plasticity, grey	SM			
			1.5		Fill - Silty SAND, fine to coarse grained, white	SM			
			2		Fill - Peat, black/dark brown	M			
			2.5						
			3						
			3.5		Silty SAND, fine to medium grained, dark grey/brown	W			
			4						
			4.5						
			5		Termination Depth at:5.00 m.				
			5.5						

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GROUNDWATER WELL MW04

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.507188
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.76109
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 4.50 m bgl	**ELEVATION** m AHD
DRILLING DATE 07 Jul 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502161		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 1.500 - 4.500 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW04	0.5		Fill - Clayey SAND, fine to coarse grained, brown	SM			
			1		Fill - Silty Clayey SAND, fine to coarse grained, grey brown	SM			
			1.5						
			2		Fill - Silty SAND, fine to medium grained, pale grey	M			
			2.5		Fill - Clayey SILT, low plasticity, white/pale grey	M			
			3		Fill - Silty SAND, fine to medium grained, grey brown	W			
					Fill - Peat brown	W			
			3.5		Sandy SILT, low plasticity, dark grey brown	W			
			4						
			4.5		Termination Depth at:4.50 m.				
			5						
			5.5						

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GROUNDWATER WELL MW05

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.508469
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.775425
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 4.50 m bgl	**ELEVATION** m AHD
DRILLING DATE 07 Jul 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502163		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 1.500 - 4.500 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW05	0.5		Fill - Gravelly SAND, fine to coarse grained, brown	SM			
			1		Fill - Silty Clayey SAND, fine to coarse grained, dark grey	SM			
			1.5						
			2		Fill - Sandy SILT, low plasticity, pale brown	M			
			2.5		Fill - Clayey Sandy SILT, low plasticity, blue/green	W			
			3						
			3.5		Fill - Peat, dark brown	W			
			4		Sandy SILT, low plasticity, dark green brown	W			
			4.5						
					Termination Depth at:4.50 m.				
			5						
			5.5						

GROUNDWATER WELL MW06

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.505964
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.782532
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 5.00 m bgl	**ELEVATION** m AHD
DRILLING DATE 07 Jul 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502166		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 2.000 - 5.000 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW06	0.5		Fill - Gravelly SAND, fine to coarse grained, yellow brown	SM			
					Fill - Gravelly SAND, fine to coarse grained, brown	SM			
			1		Fill - Silty Gravelly SAND, fine to coarse grained, grey browm	SM			
			1.5						
			2		Fill - Sandy SILT, low plasticity, pale grey	SM			
			2.5						
			3		Fill - Peat, dark grey	M			
			3.5		Sandy SILT, low plasticity, dark green brown	W			
			4						
			4.5						
			5		Termination Depth at:5.00 m.				
			5.5						

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GROUNDWATER WELL MW07

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.506416
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.777745
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 5.50 m bgl	**ELEVATION** m AHD
DRILLING DATE 07 Jul 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502167		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 1.500 - 4.500 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽		0.5		Fill - Clayey Gravelly SAND, fine to coarse grained, pale brown	SM			
			1		Fill - Clayey SILT, low plasticity, brown	SM			
			1.5		Fill - Silty Clayey SAND, fine to medium grained, dark brown	SM			
			2						
			2.5		Fill - Sandy SILT, low plasticity, pale grey	M			
			3		Fill - Peat, dark grey	M			
			3.5		Silty SAND, fine to medium grained, dark green brown	W			
			4						
			4.5						
			5						
			5.5		Termination Depth at:5.50 m.				

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GROUNDWATER WELL MW08

PROJECT NUMBER 67064	**DRILLING COMPANY** SMS	**EASTING** 138.507625
PROJECT NAME NPSCY EIS	**DRILL RIG** Rockmaster	**NORTHING** -34.772323
CLIENT URPS	**DRILLING METHOD** Hand Auger / Solid Flight Au	**COORD SYS** GDA94_MGA_zone_54
ADDRESS Osborne SA	**TOTAL DEPTH** 4.50 m bgl	**ELEVATION** m AHD
DRILLING DATE 06 Jun 2024	**DIAMETER** 100 mm	**LOGGED BY** JA
PERMIT NO. P-502168		**CHECKED BY** DO
COMPLETION Gatic	**CASING** PVC100	**SCREEN INTERVAL** 1.500 - 4.500 m bgl

COMMENTS

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA	▽	MW08	0.5		Fill - Gravelly SAND, fine to coarse grained, yellow brown	SM			
					Fill - Silty Clayey SAND, fine to coarse grained, brown	SM			
			1		Fill - Clayey SAND, medium to coarse grained, pink	SM			
			1.5						
			2						
			2.5		Sandy SILT, low plasticity, white	W			
			3						
			3.5						
			4						
			4.5		Termination Depth at:4.50 m.				
			5						
			5.5						

Appendix M Groundwater Field Sampling Sheets

FIELD GAUGING SHEET

Job Number: 67064 Date: 13/06/2024

Gauging By: AB Dipper / IP:

Well ID	DTP (m)	SWL (m)	Total Depth (m)	Product Depth (m)
CGW01	—	1.849	4.041	—
CGW02	—	~~Dry~~	blocked	—
CGW03	—	1.912	4.709	—
FGW01	—	2.146	4.49	—
FGW03	—	2.792	4.49	—
MW01	—	1.998	4.877	—
MW02	—	1.393	3.752	—
MW03	—	~~2.148~~ 2.148	~~4.559~~ ~~4.545~~	—
MW05	—	2.016	4.419	—
MW06	—	2.706	5.001	—
MW07	—	2.166	4.543	—
MW08	—	2.122	4.599	—
GW01	—	2.998	4.~~8~~695	—
GW02	—	3.083	5.23	—
GW03	—	1.3~~88~~96	4.63	—
MW04	—	2.554	4.412	—

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~46648~~	WELL ID	CGW01
Client:	URPS	Purging date:	13/6/24
Site Location:	Osborne	Sampling date:	13/6/24
Field Sampler(s):	AJ JA JB AB	Stick up (m):	—
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	1.849
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	—
Well condition:	Comprimised / Good	Well Depth (mBTOC):	4.04
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	2.191
	Low Flow: Pump submersion depth (mBTOC): 2.84	Sampling SWL (mBTOC): 1.869	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	1.11	42850	12.57	-144.5	18.6	1.868	9:44
1.0	1.04	42795	12.59	-134.6	18.6	1.868	9:47
1.5	0.94	42822	12.59	-133.5	18.7	1.869	9:50
1.8	0.63	42872	12.58	-132.0	19.3	1.869	9:53
2.1	0.43	42856	12.56	-131.3	19.4	1.869	9:56
2.3	0.43	42871	12.57	-132.7	19.5	1.869	9:59
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	brown	Odour:	Nil
Shaker Test:	Y	Foam Observed	Y no

Primary sample ID:	CGW01	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	—	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	—	Inorganic		plastic - green (unpreserved) ~500ml
Rinse blank after?	YES / NO ID:	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	YES / NO	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	YSI	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	solinst	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	peri	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~64648~~	WELL ID	CGWO3
Client:	URPS	Purging date:	14/6/24
Site Location:	osborne - Scarpa	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	–
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	–
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	1.912
Cap type:	(Envirocap) / PVC End cap	NAPL thickness (m):	–
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	LAH 4.73
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	– 2.818
	Low Flow: Pump submersion depth (mBTOC): 2.912		Sampling SWL (mBTOC): 1.912

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.3	9.55	~~444~~	8.54	85.0	14.6	1.912	8:12
0.6	9.21	~~36~~	8.69	-90.7	15.5	1.912	8:15
0.9	8.86	~~30~~	8.69	-94.5	16.2	1.912	8:18
1.2	8.83	~~27~~	8.62	-95.7	16.5	1.912	8:21
1.5	8.77	~~25~~	8.55	-94.3	16.6	1.912	8:24
1.8	8.67	~~24~~	8.51	-94.4	16.5	1.912	8:27
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	(YES) / NO
Colour:	brown	Odour:	no
Shaker Test:	Y	Foam Observed	no

Primary sample ID:	CGWO3	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	–	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	–	Inorganic		plastic - green (unpreserved) ~500ml
Rinse blank after?	YES / (NO) ID:	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	(YES) / ~~NO~~	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	YSI	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	IP solinst	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	peri	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes: flow pump = 21

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~646448~~	WELL ID	FGW01
Client:	URPS	Purging date:	14/6/24
Site Location:		Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB AB	Stick up (m):	—
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	2.146
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	—
Well condition:	Comprimised / Good	Well Depth (mBTOC):	4.949
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	3.344
	Low Flow: Pump submersion depth (mBTOC): 3.146	Sampling SWL (mBTOC): 2.231	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.8	6.27	18319	12.5	-216.9	19.1	2.186	1:42
0.2	—	18435	12.55	-215.3	19.6	2.191	1:45
1.5	—	18574	12.58	-211.5	20.1	2.204	1:48
1.8	0 —	18632	12.55	-199.6	20.1	2.215	1:51
2.1	0 —	18607	12.55	-192.0	20	2.231	1:54
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	dark brown	Odour:	Light/strong H_2S
Shaker Test:	Y	Foam Observed	Yes — lots

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	FGW01	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	—	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	—	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / NO ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	YES / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst IP	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	peri			

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

67064

Project Number:	~~64648~~	WELL ID	FGW03
Client:	URPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	—
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	2. ~~[illegible]~~ 1.641
Cap type:	Envirocap / PVC Endcap	NAPL thickness (m):	—
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.49
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	2.849
	Low Flow: Pump submersion depth (mBTOC): 3.641	Sampling SWL (mBTOC): 2.763	

Volume Purged (L)	Dissolved Oxygen (ppm)	Electrical Conductivity (µS/cm @25°C)	pH (pH units)	Redox Potential (mV)	Temperature (°C)	Comments (SWL for low flow (mBTOC))	Time
0.05	—0	32577	9.45	-283.7	20.3	2.693	12:40
						pause drawdown	
0.8	—0	33420	9.45	-299.8	20.3	2.714	12:45
1.2	—0	33435	9.44	-304.0	20.4	2.735	12:46
1.5	—0	33702	9.44	-306.6	20.5	2.765	12:49
1.8	—0	33833	9.44	-311.8	20.6	2.778	12:52
2.1	—0	33749	9.43	-316.4	20.7	2.745	~~12:55~~ 1:05
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

raw

2.5 — 34031 943 -329.8 20.6 2.763 1:08

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	dark brown	Odour:	Yes - old petrol / oily
Shaker Test:	Y	Foam Observed	None

Primary sample ID:	FGW03	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	~~DUP02 (PFAS only)~~	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	~~DUPLICATE (PFAS only)~~	Inorganic		plastic - green (unpreserved) ~500ml
Rinse blank after?	YES / NO ID:	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	(YES) / NO	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	YSI	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	IP solinst	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	peri	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes: flow meter = 21 — 18 drawdown quick dry substance on tubing (metal like?)

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	~~[illegible]~~ 67064	WELL ID	GW01
Client:	URPS	Purging date:	13/6/24
Site Location:	Osborne	Sampling date:	13/6/24
Field Sampler(s):	AJ JA JB AB	Stick up (m):	0.64
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	–
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	~~2~~.434
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	–
Well condition:	Comprimised / Good	Well Depth (mBTOC):	4.695
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	2.261
	Low Flow: Pump submersion depth (mBTOC): 3.43	Sampling SWL (mBTOC): ~~3.43~~ 2.381	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	9.60	40	7.78	-266.6	15.2	~~2~~.381	1:01
1.0	9.25	33.4	7.52	-276.9	15.9	~~2~~.381	1:04
1.5	9.49	29.8	~~7~~.28	-288.6	16.5	~~2~~.381	1:07
2.0	8.67	26.2	~~8~~.73	-286.8	17.4	2.381	1:10
2.5	8.61	25.6	6.72	-283.4	17.5	2.381	1:13
3.0	8.58	25.3	6.72	-280.1	17.6	2.381	1:16
							1:19
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	brown	Odour:	anoxic / eggy smell.
Shaker Test:	Y	Foam Observed	y some

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	GW01	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	–	Inorganic	2	plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	–	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / NO ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	YES / NO	Nutrients	1	plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	IP colmist	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	Peri		1	grease jar

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~[illegible]~~	WELL ID	GW02
Client:	URPS	Purging date:	13/6
Site Location:	Osborne	Sampling date:	13/6
Field Sampler(s):	AJ JA JB AB	Stick up (m):	0.9
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	–
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	3.082
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	–
Well condition:	Comprimised / Good	Well Depth (mBTOC):	5.23
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	2.148
	Low Flow: Pump submersion depth (mBTOC): 4.082	Sampling SWL (mBTOC):	4.082

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	9.23	145.1	7.9	~~-279.1~~	15.4	3.128	12:00
1.0	9.03	127.1	7.74	-289.1	15.9	3.128	12:03
1.5	8.96	119.8	7.6	-291.6	16.1	3.129	12:06
2.0	8.97	114.5	7.4	-289.1	16.1	3.129	12:09
2.5	8.93	111.5	7.4	-287.2	16.2	3.129	12:12
3.0	8.93	109.3	7.4	-285.4	16.2	3.129	12:15
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	brown	Odour:	no
Shaker Test:	y	Foam Observed	some

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	GW02	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (Intra) sample ID:	–	Inorganic	2	plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	–	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / NO ID:	Volitiles	4	Glass Vials (x2) pink (preserved) ~ 40ml
Samples filtered for metals?	YES / NO	Nutrients	1	plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	IP oolmist	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	peri			

Notes: rate = 21 1 1 grease gap

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	~~67064~~ 67064	WELL ID	GW03
Client:	URPS	Purging date:	13/6/24
Site Location:	Osborne	Sampling date:	13/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	1
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	-
Well completion:	Gatic / (Standpipe)	Depth to SWL (mBTOC):	1.389
Cap type:	(Envirocap) / PVC End cap	NAPL thickness (m):	-
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.63
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	3.241
	Low Flow: Pump submersion depth (mBTOC): 2.4	Sampling SWL (mBTOC): ~~2.44~~ 1.419	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	0.51	623818	6.44	-262.9	16.1	1.419	11:36
1.0	0.64	62186	6.45	-294.2	16.1	1.419	11:39
1.5	1.73	62862	6.46	-298.5	16.1	1.419	11:42
2.0	2.55	62625	6.46	-298.9	16.2	1.419	11:45
2.5	2.52	62411	6.47	-297.8	16.2	1419	11:48
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / (Medium) / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	brown tint	Odour:	~~slg~~ anoxic
Shaker Test:	Y	Foam Observed	no

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	GW03	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	-	Inorganic	2	plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	-	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	YES / (NO)	Nutrients	1	plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	~~IP sonlist~~ YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	IP sonlist	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	peri		1	grease jar

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~646148~~	WELL ID	MW01
Client:	VRPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JP (AB)	Stick up (m):	—
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	2.998
Cap type:	(Envirocap) / PVC End cap	NAPL thickness (m):	—
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.877
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	1.870
	Low Flow: Pump submersion depth (mBTOC) 2.998	Sampling SWL (mBTOC):	2.998

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	-0	13521	8.38	-233.7	17.8	2.998	11:11
1.0	-0	13508	8.36	-237.7	18.0	2.998	11:14
1.5	-0	13707	8.33	-246.1	18.4	2.998	11:17
2.0	-0	13728	8.33	-247.8	18.4	2.998	11:20
2.5	-0	13807	8.33	-251.5	18.4	2.998	11:23
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	brown	Odour:	H_2S/decayin gorganic
Shaker Test:	Y	Foam Observed	some

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	~~MW~~ MW01	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	—	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	—	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	IP somist	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	peri			

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	64648	WELL ID	MW02
Client:	URPS	Purging date:	14/0/24
Site Location:	osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	—
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	1.362
Cap type:	(Envirocap / PVC End cap)	NAPL thickness (m):	—
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	3.752
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	2.39
	Low Flow: Pump submersion depth (mBTOC): 2.362	Sampling SWL (mBTOC): 1.379	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.8	-0	8904	12.14	-257.8	17.6	1.378	11.57
1.2	-0	8973	12.16	-265.8	17.6	1.378	12:00
1.5	-0	8958	12.16	-268.5	17.7	1.379	12:03
1.8	-0	8947	12.16	-269.5	17.7	1.379	12:06
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	brown / dark	Odour:	H2S strong / decaying
Shaker Test:	Y	Foam Observed	Some

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	6 MW02	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	—	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	—	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	IP	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:				

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064	WELL ID	MW03
Client:	URPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ (W) JB AB	Stick up (m):	–
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	–
Well completion:	(Static) / Standpipe	Depth to SWL (mBTOC):	2.448
Cap type:	(Envirocap) / PVC End cap	NAPL thickness (m):	–
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.95
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	2.502
	Low Flow: Pump submersion depth (mBTOC): 3.5		Sampling SWL (mBTOC): 2.464

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	0.33	65637	11.54	-522.5	19.3	2.458	13:51
0.9	0.00	65371	11.06	-531.5	20.1	2.466	13:54
1.3	0.00	65295	10.58	-514.2	20.4	2.462	13:57
1.7	0.00	65461	10.34	-511.1	20.5	2.463	14:00
2.1	0.00	65591	10.23	-507.1	20.5	2.464	14:03
2.5	0.00	65862	9.68	-490.3	20.5	2.464	14:06
2.9	0.00	65995	9.39	-477.7	20.6	2.464	14:09
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	(YES) / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

3.3	0.00	65981	9.38	-478.1	20.6		14:12

Turbidity	High / Medium / (Low)	Hydrocarbon sheen?	YES / (NO)
Colour:	clear	Odour:	slight H_2S
Shaker Test:	X	Foam Observed	Low/Nil

Primary sample ID:	MW03	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	–	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	–	Inorganic		plastic - green (unpreserved) ~500ml
Rinse blank after?	YES / (NO) ID:	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	(YES) / NO	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	YSI 1846 103 116	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	Solinst 1P	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	Peri	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	644648	WELL ID	MW04
Client:	URPS	Purging date:	13/6/24
Site Location:	Osborne	Sampling date:	13/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	–
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	–
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	2.55
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	–
Well condition:	Comprimised / Good	Well Depth (mBTOC):	4.412
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	1.862
	Low Flow: Pump submersion depth (mBTOC): 3.55		Sampling SWL (mBTOC): 2.588

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	8.75	63.6	9.24	-241.8	18.5	2.581	2:08
1.0	8.68	57.6	9.25	-336.3	18.5	2.583	2:11
1.5	8.56	53.4	9.23	-233.6	18.6	2.584	2:14
2.0	8.56	50.9	9.17	-230.4	18.5	2.583	2:17
2.5	8.48	49.4	9.16	-223.8	18.5	2.587	2:20
3.0	8.43	48.1	9.16	-220.4	18.4	2.588	2:23
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	Dark brown	Odour:	Yes - diesel/petrol/organic
Shaker Test:	Y	Foam Observed	Y - some.

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	MW04	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	~~DUP01 (PFAS)~~	Inorganic	2	plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	~~SPLIT01 (PFAS)~~	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / NO ID: RB01	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	YES / NO	Nutrients	1	plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	~~YSI~~ 781	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	Rent			

Notes: 1 grease jar

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	~~[illegible]~~ 67064	WELL ID	MW05
Client:	~~[illegible]~~ VRPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ (JA) JB AB	Stick up (m):	-
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	-
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	2.016
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	-
Well condition:	Comprimised / Good	Well Depth (mBTOC):	4.419
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	2.403
	Low Flow: Pump submersion depth (mBTOC): 3.016	Sampling SWL (mBTOC): 2.186	

Volume Purged (L)	Dissolved Oxygen (ppm)	Electrical Conductivity (µS/cm @25°C)	pH (pH units)	Redox Potential (mV)	Temperature (°C)	Comments: SWL for low flow (mBTOC)	Time
0.5	0.00	79784	12.22	-571.7	18.0	2.133	14:40
0.8	0.00	79852	12.22	-573.2	18.3	2.147	14:43
1.1	0.00	79741	12.22	-571.7	18.5	2.161	14:46
1.4	0.00	79820	12.22	-573.8	18.6	2.173	14:49
1.7	0.00	79840	12.22	-575.1	18.6	2.186	14:52
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1°C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / ~~Low~~	Hydrocarbon sheen?	(YES) / NO
Colour:	Dark brown	Odour:	Strong H_2S / decaying organics
Shaker Test:	Y	Foam Observed	no

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	MW05	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	-	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	-	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI 18G10 3116	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst IP	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	Peri			

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	~~[illegible]~~ 67064	WELL ID	MW08
Client:	URPS	Purging date:	14/6/24
Site Location:	osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	—
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	1.998
Cap type:	(Envirocap) / PVC End cap	NAPL thickness (m):	—
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	5.012
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	3.014
	Low Flow: Pump submersion depth (mBTOC): 2.998	Sampling SWL (mBTOC): 2.157	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	~0	46874	12.41	-304.4	17.4	2.111	2:23
0.8	~0	46670	12.43	-379.3	17.9	2.123	2:26
1.2	~0	47124	12.44	-467.8	18.2	2.134	2:29
1.5	~0	46581	12.45	-491.7	18.3	2.146	2:32
1.8	~0	45620	12.44	-505.0	18.2	2.157	2:35
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	brown/dark	Odour:	strong H_2S/ decaying organics
Shaker Test:	Y	Foam Observed	no

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	MW06	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	DUP02 (PFAS only)	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	SPLIT02 (PFAS only)	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	(YES) / NO ID: RB02	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	Y	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	Perri			

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064	WELL ID	MW07
Client:	NRPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ (A) JB AB	Stick up (m):	-
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	-
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	2.106
Cap type:	Envirocap / (PVC End cap)	NAPL thickness (m):	-
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.543
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	2.437
	Low Flow: Pump submersion depth (mBTOC): 3.106		Sampling SWL (mBTOC): 2.139

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
~~0.5~~	~~0.08~~	~~518~~	~~12.37~~	~~-518~~	~~17.1~~	~~2.136~~	~~11:09~~
0.5	0.00	68190	12.19	-531	18.7	2.127	12:44
0.8	0.00	68361	12.21	-568.9	19.0	2.129	12:47
1.1	0.00	68413	12.22	-576.3	19.2	2.134	12:50
1.4	0.00	68456	12.22	-577.5	19.3	2.137	12:53
1.7	0.00	68508	12.22	-576.8	19.3	2.139	12:56
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	(YES) / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	High / (Medium) / Low	Hydrocarbon sheen?	(YES) / NO
Colour:	Dark brown	Odour:	Strong H_2S / degreaser organics / low / Nil
Shaker Test:	Y	Foam Observed	

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	MW07	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	DUP01	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	SPLIT01	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI 18410 3116	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	Peri			

Notes:

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	67064 ~~644548~~	WELL ID	MW08
Client:	URPS	Purging date:	14/6/24
Site Location:	Osborne	Sampling date:	14/6/24
Field Sampler(s):	AJ JA JB (AB)	Stick up (m):	—
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	—
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	2.112
Cap type:	Envirocap / (PVC Grid Cap)	NAPL thickness (m):	—
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	4.599
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	2.487
	Low Flow: Pump submersion depth (mBTOC): 3.112		Sampling SWL (mBTOC): 2.119

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	— 0	41340	12.46	-469.0	19.2	2.108	3:07
0.8	— 0	43606	12.43	-484.5	19.6	2.118	3:10
1.2	— 0	45822	12.41	-495.3	20.0	2.118	3:13
1.5	— 0	47800	12.39	-502.7	20.1	2.118	3:16
1.8	— 0	49528	12.35	-506.8	20.1	2.119	3:19
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min Max. drawdown = 0.1 m Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Turbidity	(High) / Medium / Low	Hydrocarbon sheen?	YES / (NO)
Colour:	brown	Odour:	no
Shaker Test:	Y	Foam Observed	Y some

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	MW08	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	—	Inorganic		plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	—	Semi Vols.	2	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / (NO) ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	(YES) / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+	1	plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Solinst	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	peri			

Notes: flow = 22.

Appendix N WaterConnect Database Search (June 2024)

Unit_No	Class	Aquifer	Orig Depth	Orig Drill Date	Max Depth	Max Drill Date	Last Depth	Last Opened Date	Permit	Cased To	Casing (min diam)	Purpose	Status	Status Date	DTW	SWL	RSWL	Water Level Date
6528-896	WW	Qhcks	3.6	19/08/1984	3.6	19/08/1984	3.6	19/08/1984	14236	2.4	90	DOM	OPR		2.1	2.1	1.9	19/08/1984
6528-790	WW	Qhcks	3.9	20/12/1983	3.9	20/12/1983	3.9	20/12/1983	13393	3.1	90	DOM	OPR		2.8	2.8	2.4	20/12/1983
6528-990	WW	Qhcks	4	18/04/1985	4	18/04/1985	4	18/04/1985	16554	2.7	40	DOM	OPR		2.4	2.4	3.4	18/04/1985
6628-16286	WW	Qhck	4	2/02/1993	4	2/02/1993	4	2/02/1993	28534			DOM			1.1	1.1	1.7	17/03/1993
6528-736	WW	Qhcks	4.2	1/03/1983	4.2	1/03/1983	4.2	1/03/1983	11999	3	90	DOM	OPR		2.7	2.7	1.3	1/03/1983
6528-786	WW	Qhcks	4.2	20/10/1983	4.2	20/10/1983	4.2	20/10/1983	13409	3	90	DOM	OPR		2.7	2.7	1.3	20/10/1983
6528-797	WW	Qhcks	4.4	19/01/1984	4.4	19/01/1984	4.4	19/01/1984	13718	3.2	90	DOM	OPR		2.9	2.9	2.2	19/01/1984
6528-895	WW	Qhcks	4.5	22/10/1984	4.5	22/10/1984	4.5	22/10/1984	15255	3.3	90	DOM	OPR		3	3	1.2	22/10/1984
6528-991	WW	Qhcks	4.5	16/04/1985	4.5	16/04/1985	4.5	16/04/1985	16540	3.3	40	DOM	OPR		3	3	1.3	16/04/1985
6528-1395	WW	Qhcks	4.5	23/04/1991	4.5	23/04/1991	4.5	23/04/1991	25184			DOM	OPR		3	3	1	29/04/1991
6628-19743	WW	Qhcks	4.5	16/02/1992	4.5	16/02/1992	4.5	16/02/1992	26985			DOM	OPR		3	3	-0.2	4/03/1992
6528-735	WW	Qhcks	4.7	3/03/1983	4.7	3/03/1983	4.7	3/03/1983	12212	3.5	90	DOM	OPR		3.2	3.2	2.2	3/03/1983
6528-1136	WW	Qhcks	4.7	13/04/1988	4.7	13/04/1988	4.7	13/04/1988	21123			DOM	OPR		3.2	3.2	2.5	13/04/1988
6528-912	WW	Qhcks	5	9/11/1984	5	9/11/1984	5	9/11/1984	15513			DOM	OPR		3	3	1	9/11/1984
6528-1557	WW	Qhcks	5	10/02/1992	5	10/02/1992	5	10/02/1992	26756			DOM	OPR		3.5	3.5	0.3	3/07/1992
6528-1783	WW	Qhcks	5	18/12/1994	5	18/12/1994	5	18/12/1994	30745			DOM			3	3	1	18/12/1994
6528-1910	WW	Qhcks	5	11/09/1994	5	11/09/1994	5	11/09/1994	32524			DOM						
6528-3051	WW		5	26/03/2021	5	26/03/2021	5	26/03/2021	389538	5		DOM						
6528-1945	WW	Qhcks	5.3	21/07/1995	5.3	21/07/1995	5.3	21/07/1995	34602			DOM			3.3	3.3	0.7	21/07/1995
6528-799	WW	Qhcks	5.4	5/03/1984	5.4	5/03/1984	5.4	5/03/1984	13719	4.2	90	DOM	OPR		3.9	3.9	1.2	5/03/1984
6528-957	WW	Qhcks	5.4	8/01/1985	5.4	8/01/1985	5.4	8/01/1985	15585	4.2	90	DOM	OPR		3.9	3.9	1.6	8/01/1985
6528-740	WW	Qhcks	5.48	12/01/1983	5.48	12/01/1983	5.48	12/01/1983	12463	5.48	152	DOM	OPR		4.27	4.27	1.73	12/01/1983
6528-1363	WW	Qhcks	5.5	29/10/1989	5.5	29/10/1989	5.5	29/10/1989	22014	2.5	75	DOM	OPR		3.8	3.8	0.7	29/10/1989
6528-1421	WW	Qhcks	5.5	12/09/1991	5.5	12/09/1991	5.5	12/09/1991	26085	5.5		DOM	OPR		3	3	1	12/09/1991
6528-1640	WW	Qhcks	5.5	9/12/1993	5.5	9/12/1993	5.5	9/12/1993	28928			DOM			4	4	2	9/12/1993
6528-1702	WW	Qhcks	5.5	12/12/1992	5.5	12/12/1992	5.5	12/12/1992	27854			DOM			4	4	-1.1	12/12/1992
6628-19837	WW	Qhcks	5.5	14/06/1996	5.5	14/06/1996	5.5	14/06/1996	38024			DOM						
6528-3066	WW		5.6	29/12/2020	5.6	29/12/2020	5.6	29/12/2020	390441	5.6		DOM						
6528-787	WW	Qhcks	5.7	20/10/1983	5.7	20/10/1983	5.7	20/10/1983	13410	4.5	90	DOM	OPR		4.2	4.2	1.5	20/10/1983
6528-1359	WW	Qhcks	5.7	29/10/1989	5.7	29/10/1989	5.7	29/10/1989	23454			DOM	OPR		5.7	5.7	-1.7	29/10/1989
6528-3023	WW		5.7	15/10/2020	5.7	15/10/2020	5.7	15/10/2020	380926	5.7		DOM						
6628-19843	WW	Qhcks	5.8	24/11/1991	5.8	24/11/1991	5.8	24/11/1991	25993			DOM	OPR		2.9	2.9	0.6	24/11/1991
6528-1572	WW	Qhcks	5.8	18/01/1993	5.8	18/01/1993	5.8	18/01/1993	28198	3.3	63	DOM			2.3	2.3	1.9	18/05/1993
6528-3001	WW		5.8	28/01/2020	5.8	28/01/2020	5.8	28/01/2020	359286	5.8		DOM						
6528-2280	WW	Qhcks	5.9	15/12/1997	5.9	15/12/1997	5.9	15/12/1997	43491			DOM			1.8	1.8	2.2	15/12/1997
6528-2425	WW	Qhcks	5.9	13/04/2000	5.9	13/04/2000	5.9	13/04/2000	52006	5.9	50	DOM			4.1	4.1	0.5	13/04/2000
6528-814	WW	Qhcks	6	1/01/1983	6	1/01/1983	6	1/01/1983	11594			DOM	OPR					
6528-818	WW	Qhcks	6	1/11/1983	6	1/11/1983	6	1/11/1983	13509			DOM	OPR					
6528-820	WW	Qhcks	6	1/04/1984	6	1/04/1984	6	1/04/1984	14434			DOM	OPR					
6528-835	WW	Qhcks	6	1/12/1982	6	1/12/1982	6	1/12/1982	13626			DOM	OPR					
6528-865	WW	Qhcks	6	1/02/1983	6	1/02/1983	6	1/02/1983	12757	6	356	DOM	OPR		4.5	4.5	1	1/02/1983
6528-888	WW	Qhcks	6	4/10/1984	6	4/10/1984	6	4/10/1984	15315			DOM	OPR		4	4	0.4	4/10/1984
6528-897	WW	Qhcks	6	26/08/1984	6	26/08/1984	6	26/08/1984	13765			DOM	OPR		3.4	3.4	0.6	26/08/1984
6528-933	WW	Qhcks	6	22/01/1985	6	22/01/1985	6	22/01/1985	14824			DOM	OPR		4	4	0	22/01/1985
6528-940	WW	Qhcks	6	7/02/1985	6	7/02/1985	6	7/02/1985	16027			DOM	OPR		4	4	1.7	7/02/1985
6528-998	WW	Qhcks	6	8/05/1985	6	8/05/1985	6	8/05/1985	16764			DOM	OPR		4	4	1.4	8/05/1985
6528-1013	WW	Qhcks	6	8/09/1985	6	8/09/1985	6	8/09/1985	17305			DOM	OPR		3	3	1	11/09/1985
6528-1015	WW	Qhcks	6	8/09/1985	6	8/09/1985	6	8/09/1985	17294			DOM	OPR		3	3	1	11/09/1985
6528-1031	WW	Qhcks	6	26/10/1985	6	26/10/1985	6	26/10/1985	17452			DOM	OPR		3	3	1	26/10/1985
6528-1039	WW	Qhcks	6	20/11/1985	6	20/11/1985	6	20/11/1985	17657	6	40	DOM	OPR		4	4	0	29/11/1985
6528-1369	WW	Qhcks	6	12/02/1990	6	12/02/1990	6	12/02/1990	23625			DOM	OPR		4	4	0.4	12/02/1990
6528-1374	WW	Qhcks	6	4/04/1990	6	4/04/1990	6	4/04/1990	24038			DOM	OPR		4.5	4.5	0.5	4/04/1990
6528-1511	WW	Qhcks	6	11/02/1992	6	11/02/1992	6	11/02/1992	26458			DOM	OPR		4.3	4.3	-0.3	17/03/1992
6528-1784	WW	Qhcks	6	3/01/1995	6	3/01/1995	6	3/01/1995	33424			DOM			4	4	0	3/01/1995
6528-2472	WW	Qhcks	6	4/05/2002	6	4/05/2002	6	4/05/2002	57954	4.8		DOM			4.5	4.5	-0.5	4/05/2002
6528-2493	WW	Qhcks	6	16/12/2002	6	16/12/2002	6	16/12/2002	60441			DOM			2.5	2.5	1.1	16/12/2002
6528-2995	WW		6	3/12/2019	6	3/12/2019	6	3/12/2019	352007			DOM			4.2	4.2	1.1	3/12/2019
6528-3008	WW		6	30/03/2020	6	30/03/2020	6	30/03/2020	361715	6		DOM						
6528-3050	WW		6	12/03/2021	6	12/03/2021	6	12/03/2021	391526	6		DOM						
6528-2955	WW		6.1	30/08/2019	6.1	30/08/2019	6.1	30/08/2019	350536	6.1	32	DOM						
6528-3011	WW		6.1	6/05/2020	6.1	6/05/2020	6.1	6/05/2020	362201			DOM			4.3	4.3	0	6/05/2020
6528-2215	WW	Qhcks	6.2	9/04/1999	6.2	9/04/1999	6.2	9/04/1999	48703			DOM			2.4	2.4	2.3	9/04/1999
6528-2287	WW	Qhcks	6.2	7/03/1998	6.2	7/03/1998	6.2	7/03/1998	44589			DOM			2.8	2.8	1.2	7/03/1998
6528-2209	WW	Qhcks	6.3	17/10/1997	6.3	17/10/1997	6.3	17/10/1997	42755			DOM			2.9	2.9	1.1	17/10/1997
6528-2367	WW	Qhcks	6.3	19/10/1999	6.3	19/10/1999	6.3	19/10/1999	50822			DOM			2.7	2.7	1.3	19/10/1999
6628-19828	WW	Qhcks	6.4	25/01/1995	6.4	25/01/1995	6.4	25/01/1995	33666			DOM						
6528-1923	WW	Qhcks	6.4	21/03/1996	6.4	21/03/1996	6.4	21/03/1996	36444			DOM						
6528-2208	WW	Qhcks	6.5	1/05/1997	6.5	1/05/1997	6.5	1/05/1997	41188			DOM			3.3	3.3	2.2	1/05/1997
6528-2277	WW	Qhcks	6.5	14/10/1997	6.5	14/10/1997	6.5	14/10/1997	42684			DOM			3	3	1	14/10/1997
6528-2279	WW	Qhcks	6.5	4/11/1997	6.5	4/11/1997	6.5	4/11/1997	42909			DOM			3.1	3.1	0.9	4/11/1997
6528-2372	WW	Qhcks	6.5	27/11/1998	6.5	27/11/1998	6.5	27/11/1998	47123			DOM			3	3	1	27/11/1998
6528-2376	WW	Qhcks	6.5	9/11/1999	6.5	9/11/1999	6.5	9/11/1999	50899			DOM			3	3	1	9/11/1999
6528-2994	WW		6.5	13/01/2020	6.5	13/01/2020	6.5	13/01/2020	359025			DOM						
6528-2292	WW	Qhcks	6.6	5/01/1999	6.6	5/01/1999	6.6	5/01/1999	47481			DOM			2.7	2.7	1.3	5/01/1999
6528-1358	WW	Qhcks	6.7	11/10/1989	6.7	11/10/1989	6.7	11/10/1989	23282	6.7	75	DOM	OPR		4.2	4.2	1.8	25/10/1989
6528-1642	WW	Qhcks	6.7	1/12/1993	6.7	1/12/1993	6.7	1/12/1993	30588			DOM						
6528-1742	WW	Qhcks	6.7	27/10/1994	6.7	27/10/1994	6.7	27/10/1994	32803			DOM						

Unit_No	TDS	EC	Salinity Date	pH	pH Date	Yield	Yield Date	MGA Easting	MGA Northing	MGA Zone	Hundred	Plan	Parcel	Title
6528-896	1105	2000	1/11/1984	7.5	1/11/1984	0.7	19/08/1984	270717.39	6148125.83	54	PORT ADELAIDE	D10280	A806	CT 5076 894
6528-790	1328	2400	20/12/1983	7.5	20/12/1983	0.6	20/12/1983	270956.32	6147798.91	54	PORT ADELAIDE	D10177	A660	CT 5314 537
6528-990	737	1336	7/05/1985	7.5	7/05/1985	0.6	18/04/1985	270669.37	6147624.8	54	PORT ADELAIDE			
6628-16286	1334	2410	2/02/1993	7.7	2/02/1993	0.74	2/02/1993	271597.28	6146844.75	54	PORT ADELAIDE	D2582	A44	CT 5429 861
6528-736	1188	2150	14/03/1983	7	14/03/1983	0.6	1/03/1983	270712.38	6148102.84	54	PORT ADELAIDE	D10280	A812	CT 5286 789
6528-786	1356	2450	27/10/1983	7.9	27/10/1983	0.75	20/10/1983	270491.32	6147541.77	54	PORT ADELAIDE	D9950	A483	CT 5083 416
6528-797	1061	1920	25/01/1984	7.3	25/01/1984	0.6	19/01/1984	270982.37	6147767.81	54	PORT ADELAIDE	D10177	A655	CT 5402 881
6528-895	1154	2090	1/11/1984	7.4	1/11/1984	0.7	22/10/1984	271089.35	6147498.86	54	PORT ADELAIDE	D10079	A532	CT 5321 594
6528-991	1295	2340	7/05/1985	7.6	7/05/1985	0.6	16/04/1985	270936.31	6147936.82	54	PORT ADELAIDE	D10177	A614	CT 5528 731
6528-1395	1586	2860	29/04/1991	7.3	23/04/1991	0.6	23/04/1991	271231.36	6147859.82	54	PORT ADELAIDE	D8619	A683	CT 5235 50
6628-19743	2881	5150	4/03/1992	8.1	17/02/1992			271297.37	6147992.88	54	PORT ADELAIDE	D115765	A701	CT 6192 397
6528-735	950	1720	14/03/1983	7.1	14/03/1983	0.6	3/03/1983	270907.34	6147196.74	54	PORT ADELAIDE	D10078	A593	CT 5167 629
6528-1136						0.6	13/04/1988	270541.35	6147745.7	54	PORT ADELAIDE			
6528-912	904	1638	9/11/1984	7.1	9/11/1984	0.5	9/11/1984	271079.38	6147718.84	54	PORT ADELAIDE	D10177	A676	CT 5526 474
6528-1557	12417	20929	3/07/1992	7.8	10/02/1992			270552.38	6148601.89	54	PORT ADELAIDE	D10953	A979	CT 5552 543
6528-1783	2086	3750	18/12/1994	8.4	18/12/1994			270432.32	6148249.8	54	PORT ADELAIDE	D10387	A1143	CT 5314 271
6528-1910	628	1140	11/09/1994	7.8	11/09/1994			270657.42	6148139.76	54	PORT ADELAIDE	D10280	A791	CT 5520 797
6528-3051	2092	3760	26/03/2021			5	26/03/2021	270643.78	6148163.34	54	PORT ADELAIDE	D10280	A792	CT 5521 160
6528-1945	876	1590	21/07/1995	7.6	21/07/1995			270832.61	6148029.81	54	PORT ADELAIDE	D10280	A778	CT 5166 824
6528-799	959	1736	8/03/1984	7.7	8/03/1984	0.6	5/03/1984	270815.36	6147271.7	54	PORT ADELAIDE	D9898	A318	CT 5422 806
6528-957	751	1362	8/01/1985	7.4	8/01/1985	0.7	8/01/1985	270829.34	6147217.77	54	PORT ADELAIDE	D9898	A276	CT 5083 277
6528-740	827	1500	1/01/1983					270826.33	6147708.86	54	PORT ADELAIDE	D10079	A485	CT 5531 920
6528-1363	1038	1880	6/11/1989	7.2	6/11/1989	1.7	29/10/1989	271040.39	6147497.87	54	PORT ADELAIDE	D10079	A536	CT 5076 369
6528-1421	799	1449	12/09/1991	7.8	12/09/1991			270687.33	6148100.88	54	PORT ADELAIDE	D10280	A813	CT 5370 827
6528-1640	1240	2080	22/02/2005	7.5	22/02/2005			270817.45	6147444.8	54	PORT ADELAIDE	D9951	A310	CT 5101 429
6528-1702	888	1610	12/12/1992	7.8	12/12/1992			271167.32	6148114.85	54	PORT ADELAIDE	D10632	A861	CT 5215 899
6628-19837	3390	6040	14/06/1996	7.9	14/06/1996	0.45	14/06/1996	271297.55	6147459.88	54	PORT ADELAIDE	D10174	A17	CT 5414 111
6528-3066	1367	2470	29/12/2020			0.4	29/12/2020	270934.31	6147247.01	54	PORT ADELAIDE	D10078	A591	CT 5068 847
6528-787	1300	2350	27/10/1983	7.3	27/10/1983	0.75	20/10/1983	270875.33	6147473.88	54	PORT ADELAIDE	D9951	A561	CT 5253 540
6528-1359								271098.34	6147681.9	54	PORT ADELAIDE	D10177	A681	CT 5526 472
6528-3023						0.6	15/10/2020	270756.75	6147417.23	54	PORT ADELAIDE	D9952	A242	CT 5090 539
6628-19843	1373	2480	24/01/1994	7.2	24/01/1994	0.6	24/11/1991	271330.31	6147383.88	54	PORT ADELAIDE			
6528-1572	1149	2080	18/05/1993	7.4	18/05/1993	0.9	18/01/1993	271007.46	6147914.84	54	PORT ADELAIDE	D10177	A626	CT 5528 720
6528-3001						0.4	28/01/2020	270601.46	6147789.07	54	PORT ADELAIDE	D11172	A1799	CT 5375 439
6528-2280	2114	3800	15/12/1997			0.7	15/12/1997	270362.51	6147979.77	54	PORT ADELAIDE			
6528-2425	1199	2170	13/04/2000			0.6	13/04/2000	270972.83	6147390.51	54	PORT ADELAIDE	F15887	A3	CT 5485 802
6528-814								270533.37	6147522.73	54	PORT ADELAIDE	D9950	A481	CT 5538 372
6528-818								271001.35	6147153.91	54	PORT ADELAIDE	D10078	A608	CT 5106 440
6528-820								270411.34	6147630.79	54	PORT ADELAIDE	D11123	A1756	CT 5114 213
6528-835								270697.3	6147206.7	54	PORT ADELAIDE	D9898	A270	CT 5241 174
6528-865	849	1540	23/01/2002	7.4	14/02/1984	2	1/02/1983	270817.31	6147358.77	54	PORT ADELAIDE	D9951	A314	CT 5648 313
6528-888	476	865	4/10/1984	7.5	4/10/1984	0.5	4/10/1984	270752.33	6147870.85	54	PORT ADELAIDE			
6528-897	2767	4950	26/08/1984	7.7	26/08/1984	0.6	26/08/1984	270479.38	6147579.76	54	PORT ADELAIDE	D11018	A1705	CT 5481 583
6528-933	1132	2050	22/01/1985	7.4	22/01/1985	0.5	22/01/1985	270552.37	6147322.74	54	PORT ADELAIDE	D10135	A216	CT 5527 896
6528-940	1434	2590	7/02/1985	6.9	7/02/1985	0.5	7/02/1985	270814.36	6147377.79	54	PORT ADELAIDE	D9951	A313	CT 5532 176
6528-998	1067	1931	9/05/1985	7.1	9/05/1985	0.5	8/05/1985	270936.33	6147179.81	54	PORT ADELAIDE	D10078	A595	CT 5531 811
6528-1013	1895	3410	8/09/1985	7.4	8/09/1985	0.5		270419.37	6147939.79	54	PORT ADELAIDE	D22892	A1	CT 5096 659
6528-1015	688	1250	8/09/1985	7.2	8/09/1985	0.5		270906.34	6148080.82	54	PORT ADELAIDE	D10280	A769	CT 5060 795
6528-1031	1250	2260	28/10/1985	6.4	28/10/1985	0.5		270906.37	6146974.72	54	PORT ADELAIDE	D9746	A149	CT 5082 117
6528-1039	1039	1882	21/11/1985	7.5	21/11/1985	0.5	20/11/1985	270501.3	6147237.77	54	PORT ADELAIDE	D10135	A206	CT 5104 175
6528-1369	1502	2709	16/02/1990	7.2	16/02/1990			270984.31	6147906.83	54	PORT ADELAIDE	D10177	A625	CT 5062 64
6528-1374	1027	1860	4/04/1990	7.3	4/04/1990	0.6	4/04/1990	270797.32	6147858.87	54	PORT ADELAIDE	D11193	A1904	CT 5472 903
6528-1511	5611	9851	17/03/1992	7.3	11/02/1992	0.89	11/02/1992	270315.31	6148332.79	54	PORT ADELAIDE	D10387	A1109	CT 5079 493
6528-1784	755	1370	3/01/1995	7.2	3/01/1995			270637.42	6147939.8	54	PORT ADELAIDE	D11187	A1925	CT 5093 20
6528-2472	783	1420	4/05/2002			0.6	4/05/2002	270898.77	6148057.54	54	PORT ADELAIDE	D10280	A768	CT 5191 837
6528-2493	3178	5670	16/12/2002					271083.23	6148045.93	54	PORT ADELAIDE	D10632	A845	CT 5504 342
6528-2995						0.4	3/12/2019	270664.13	6147731.15	54	PORT ADELAIDE	D11152	A1786	CT 5478 321
6528-3008						0.5	30/03/2020	270751.72	6147351.79	54	PORT ADELAIDE	D9952	A254	CT 5233 356
6528-3050	1056	1911	12/03/2021			0.4	12/03/2021	270732.12	6147422.19	54	PORT ADELAIDE	D9952	A241	CT 5122 875
6528-2955						0.6	30/08/2019	270464.79	6147699.52	54	PORT ADELAIDE	D11123	A1766	CT 5189 734
6528-3011						0.5	6/05/2020	270905.53	6147953.09	54	PORT ADELAIDE	D10177	A613	CT 5313 934
6528-2215	1278	2310	9/04/1999			0.65	9/04/1999	270797.51	6147069.79	54	PORT ADELAIDE	D9746	A132	CT 5469 746
6528-2287	838	1520	7/03/1998			0.6	7/03/1998	270627.54	6148019.91	54	PORT ADELAIDE	D10280	A786	CT 5231 849
6528-2209	2097	3770	17/10/1997			0.49	17/10/1997	271152.49	6147614.88	54	PORT ADELAIDE	D10174	A43	CT 5085 148
6528-2367	672	1220	19/10/1999			0.66	19/10/1999	270382.76	6147737.52	54	PORT ADELAIDE	D11203	A1775	CT 5468 30
6628-19828	3361	5990	25/01/1995	7.2	25/01/1995	0.44	25/01/1995	271312.29	6147419.84	54	PORT ADELAIDE	D10174	A100	CT 5171 488
6528-1923	1322	2390	21/03/1996	7.1	21/03/1996	0.35	21/03/1996	271112.55	6147464.81	54	PORT ADELAIDE	S3080		
6528-2208	1737	3130	1/05/1997			0.66	1/05/1997	270832.52	6147229.72	54	PORT ADELAIDE	D9898	A276	CT 5083 277
6528-2277	966	1750	14/10/1997			0.65	14/10/1997	270637.46	6147959.89	54	PORT ADELAIDE	D11187	A1925	CT 5093 20
6528-2279	1962	3530	4/11/1997			0.68	4/11/1997	270577.53	6147979.81	54	PORT ADELAIDE			
6528-2372	932	1690	27/11/1998			0.72	27/11/1998	270808.82	6148047.53	54	PORT ADELAIDE	D10280	A778	CT 5166 824
6528-2376	1250	2260	9/11/1999			0.64	9/11/1999	271193.74	6147708.48	54	PORT ADELAIDE	D10173	A48	CT 5188 853
6528-2994						0.4	13/01/2020	270591.3	6147473.14	54	PORT ADELAIDE	D9950	A298	CT 5367 804
6528-2292	961	1740	5/01/1999			0.8	5/01/1999	270502.53	6147239.8	54	PORT ADELAIDE	D10135	A206	CT 5104 175
6528-1358	761	1380	25/10/1989	7.6	25/10/1989			270756.33	6147706.89	54	PORT ADELAIDE	D10079	A466	CT 5531 925
6528-1642	556	1010	28/01/1994	7.3	28/01/1994	0.9	1/12/1993	270557.4	6147579.71	54	PORT ADELAIDE	D11018	A1708	CT 5169 224
6528-1742	3052	5450	27/10/1994	7.1	27/10/1994	0.9	27/10/1994	270737.39	6148164.84	54	PORT ADELAIDE	D10280	A803	CT 5206 976

Unit_No	Class	Aquifer	Orig Depth	Orig Drill Date	Max Depth	Max Drill Date	Last Depth	Last Opened Date	Permit	Cased To	Casing (min diam)	Purpose	Status	Status Date	DTW	SWL	RSWL	Water Level Date
6528-2011	WW	Qhcks	6.7	1/12/1996	6.7	1/12/1996	6.7	1/12/1996	39188			DOM			2.7	2.7	1.3	1/12/1996
6528-2276	WW	Qhcks	6.7	10/10/1997	6.7	10/10/1997	6.7	10/10/1997	42632			DOM			3.2	3.2	0.8	10/10/1997
6528-2369	WW	Qhcks	6.7	24/09/1999	6.7	24/09/1999	6.7	24/09/1999	50476			DOM			2.7	2.7	1.3	24/09/1999
6528-2374	WW	Qhcks	6.7	30/04/1998	6.7	30/04/1998	6.7	30/04/1998	45165			DOM			3.2	3.2	0.4	30/04/1998
6528-2366	WW	Qhcks	6.8	12/03/1998	6.8	12/03/1998	6.8	12/03/1998	43696			DOM			3.3	3.3	0.7	12/03/1998
6528-1661	WW	Qhcks	6.9	21/03/1994	6.9	21/03/1994	6.9	21/03/1994	31173			DOM						
6528-1664	WW	Qhcks	6.9	27/03/1994	6.9	27/03/1994	6.9	27/03/1994	31009			DOM						
6528-2371	WW	Qhcks	6.9	15/12/1998	6.9	15/12/1998	6.9	15/12/1998	47246			DOM			3.4	3.4	0.7	15/12/1998
6528-1577	WW	Qhcks	7	10/03/1993	7	10/03/1993	7	10/03/1993	29153			DOM			3.6	3.6	2.2	18/05/1993
6528-1639	WW	Qhcks	7	22/10/1993	7	22/10/1993	7	22/10/1993	30099	7		DOM						
6528-1662	WW	Qhcks	7	28/02/1994	7	28/02/1994	7	28/02/1994	30875			DOM						
6528-1792	WW	Qhcks	7	6/01/1995	7	6/01/1995	7	6/01/1995	33351			DOM						
6528-1793	WW	Qhcks	7	5/01/1995	7	5/01/1995	7	5/01/1995	33500			DOM						
6528-1964	WW	Qhcks	7	12/12/1995	7	12/12/1995	7	12/12/1995	36351			DOM						
6528-2210	WW	Qhcks	7	9/12/1997	7	9/12/1997	7	9/12/1997	43241			DOM			3.5	3.5	1.4	9/12/1997
6528-2285	WW	Qhcks	7	12/03/1998	7	12/03/1998	7	12/03/1998	44429			DOM			3.5	3.5	0.5	12/03/1998
6528-2370	WW	Qhcks	7.1	11/02/1998	7.1	11/02/1998	7.1	11/02/1998	47458			DOM			3.5	3.5	1.6	11/02/1998
6528-2377	WW	Qhcks	7.2	22/10/1999	7.2	22/10/1999	7.2	22/10/1999	50821			DOM			3.6	3.6	0.4	22/10/1999
6528-2500	WW	Qhcks	7.2	27/01/2003	7.2	27/01/2003	7.2	27/01/2003	60967	6	47	DOM			5.8	5.8	-1.4	27/01/2003
6528-1486	WW	Qhcks	7.3	9/01/1992	7.3	9/01/1992	7.3	9/01/1992	26499			DOM	OPR		3.7	3.7	0.4	31/01/1992
6528-1625	WW	Qhcks	7.3	25/10/1993	7.3	25/10/1993	7.3	25/10/1993	30257	7.3		DOM						
6528-1789	WW	Qhcks	7.3	10/11/1994	7.3	10/11/1994	7.3	10/11/1994	32807			DOM						
6528-1794	WW	Qhcks	7.3	18/01/1995	7.3	18/01/1995	7.3	18/01/1995	33544			DOM						
6528-1963	WW	Qhcks	7.3	7/02/1996	7.3	7/02/1996	7.3	7/02/1996	36370			DOM						
6528-2007	WW	Qhcks	7.3	7/12/1996	7.3	7/12/1996	7.3	7/12/1996	37635			DOM			3.7	3.7	1.3	7/12/1996
6528-2009	WW	Qhcks	7.3	5/11/1996	7.3	5/11/1996	7.3	5/11/1996	39036			DOM			3.1	3.1	1.6	5/11/1996
6528-1790	WW	Qhcks	7.32	3/12/1994	7.32	3/12/1994	7.32	3/12/1994	33027			DOM						
6528-2289	WW	Qhcks	7.4	25/09/1998	7.4	25/09/1998	7.4	25/09/1998	46460			DOM			3.5	3.5	0.5	25/09/1998
6528-1385	WW	Qhcks	7.43	9/12/1990	7.43	9/12/1990	7.43	9/12/1990	25033			DOM	OPR		3.6	3.6	0.9	9/12/1990
6528-2212	WW	Qhcks	7.5	7/04/1998	7.5	7/04/1998	7.5	7/04/1998	44698			DOM			3.6	3.6	0.4	7/04/1998
6528-2290	WW	Qhcks	7.5	10/09/1998	7.5	10/09/1998	7.5	10/09/1998	46585			DOM			2.7	2.7	1.4	10/09/1998
6528-1438	WW	Qhcks	7.6	30/10/1991	7.6	30/10/1991	7.6	30/10/1991	26254			DOM	OPR		4.1	4.1	-0.1	30/10/1991
6528-1439	WW	Qhcks	7.6	31/10/1991	7.6	31/10/1991	7.6	31/10/1991	26266			DOM	OPR		4.1	4.1	0.7	31/10/1991
6528-1545	WW	Qhcks	7.6	7/06/1992	7.6	7/06/1992	7.6	7/06/1992	27395			DOM	OPR		4.1	4.1	1.9	29/06/1992
6528-1618	WW	Qhcks	7.6	9/08/1993	7.6	9/08/1993	7.6	9/08/1993	28686			DOM						
6528-1797	WW	Qhcks	7.6	1/03/1995	7.6	1/03/1995	7.6	1/03/1995	34182			DOM						
6528-1862	WW	Qhcks	7.6	29/08/1995	7.6	29/08/1995	7.6	29/08/1995	34827			DOM						
6528-2159	WW	Qhcks	7.6	2/12/1998	7.6	2/12/1998	7.6	2/12/1998	47249			DOM			3.7	3.7	2.3	2/12/1998
6528-2211	WW	Qhcks	7.6	10/12/1997	7.6	10/12/1997	7.6	10/12/1997	43242			DOM			3.6	3.6	0.4	10/12/1997
6528-2368	WW	Qhcks	7.6	6/10/1999	7.6	6/10/1999	7.6	6/10/1999	50579			DOM			3.9	3.9	0.1	6/10/1999
6528-1665	WW	Qhcks	7.9	24/03/1994	7.9	24/03/1994	7.9	24/03/1994	30899			DOM						
6528-1796	WW	Qhcks	7.9	16/02/1995	7.9	16/02/1995	7.9	16/02/1995	33963			DOM						
6528-1828	WW	Qhcks	7.9	19/01/1995	7.9	19/01/1995	7.9	19/01/1995	33580			DOM						
6528-2274	WW	Qhcks	7.9	13/05/1997	7.9	13/05/1997	7.9	13/05/1997	41293			DOM			4.3	4.3	1.7	13/05/1997
6528-2160	WW	Qhcks	8.1	18/01/1999	8.1	18/01/1999	8.1	18/01/1999	47615			DOM			4.6	4.6	1.4	18/01/1999
6528-2281	WW	Qhcks	8.2	7/02/1998	8.2	7/02/1998	8.2	7/02/1998	44044			DOM			4.1	4.1	1.6	7/02/1998
6528-2275	WW	Qhcks	8.3	9/09/1997	8.3	9/09/1997	8.3	9/09/1997	42449			DOM			4.2	4.2	1.8	9/09/1997
6528-2373	WW	Qhcks	8.4	22/10/1998	8.4	22/10/1998	8.4	22/10/1998	46464			DOM			4.3	4.3	0.7	22/10/1998
6528-1859	WW	Qhcks	8.5	9/12/1994	8.5	9/12/1994	8.5	9/12/1994	33160			DOM						
6528-2095	WW	Qhcks	8.5	12/12/1997	8.5	12/12/1997	8.5	12/12/1997	43424			DOM			4.4	4.4	0.8	12/12/1997
6528-2286	WW	Qhcks	8.5	19/03/1998	8.5	19/03/1998	8.5	19/03/1998	44588			DOM			4.6	4.6	0.8	19/03/1998
6528-2094	WW	Qhcks	8.7	24/11/1997	8.7	24/11/1997	8.7	24/11/1997	43214			DOM			4.6	4.6	-0.6	24/11/1997
6528-2096	WW	Qhcks	8.7	11/02/1998	8.7	11/02/1998	8.7	11/02/1998	43958			DOM			4.6	4.6	0.3	11/02/1998
6528-2272	WW	Qhcks	8.8	21/11/1996	8.8	21/11/1996	8.8	21/11/1996	39141			DOM			4.3	4.3	1.7	21/11/1996
6528-1561	WW	Qhcks			7.9	16/12/1992		16/12/1992	27986	5.4	63	DOM			3.9	3.9	2	29/01/1993
6628-3369	WW	Qhck+Qpah										DRN	OPR		4.27	4.27	-0.27	8/10/1954
6528-779	WW	Qhcks	3.9	20/09/1983	3.9	20/09/1983	3.9	20/09/1983	13238	2.7	90	IRR	OPR		2.4	2.4	1.6	20/09/1983
6528-789	WW	Qhcks	4.2	8/12/1983	4.2	8/12/1983	4.2	8/12/1983	13690	3	90	IRR	OPR		2.7	2.7	1.3	8/12/1983
6528-860	WW	Qhcks	4.2	21/06/1984	4.2	21/06/1984	4.2	21/06/1984	14771	3	90	IRR	OPR		2.7	2.7	12.26	21/06/1984
6528-1360	WW	Qhcks	4.2	23/10/1989	4.2	23/10/1989	4.2	23/10/1989	23355			IRR	OPR		2.7	2.7	1.3	6/11/1989
6628-19849	WW	Qhcks	4.3	14/11/1985	4.3	14/11/1985	4.3	14/11/1985	17588	4.3	40	IRR	OPR		2.7	2.7	1.3	26/11/1985
6528-1043	WW	Qhcks	4.7	12/11/1985	4.7	12/11/1985	4.7	12/11/1985	17563	3.6	40	IRR	OPR		3.3	3.3	2.4	26/11/1985
6528-807	WW	Qhcks	4.8	25/04/1984	4.8	25/04/1984	4.8	25/04/1984	14505	3.6	90	IRR	OPR		3.3	3.3	1.4	25/04/1984
6528-863	WW	Qhcks	5	1/03/1984	5	1/03/1984	5	1/03/1984	14166			IRR	OPR		4	4	0	1/03/1984
6528-801	WW	Qhcks	5.1	5/03/1984	5.1	5/03/1984	5.1	5/03/1984	14206	3.9	90	IRR	OPR		3.6	3.6	0.4	5/03/1984
6528-862	WW	Qhcks	5.3	30/05/1984	5.3	30/05/1984	5.3	30/05/1984				IRR	OPR					
6528-800	WW	Qhcks	5.4	7/03/1984	5.4	7/03/1984	5.4	7/03/1984	14061	4.2	90	IRR	OPR		3.9	3.9	1	7/03/1984
6528-1373	WW	Qhcks	5.7	28/03/1990	5.7	28/03/1990	5.7	28/03/1990	23559			IRR	OPR		4	4	1.1	4/04/1990
6528-551	WW	Qhcks	6	27/10/1980	6	27/10/1980	6	27/10/1980	7857	4	102	IRR	OPR					
6528-1736	WW	Qhcks	6.4	18/10/1994	6.4	18/10/1994	6.4	18/10/1994	32513			IRR						
6528-1689	WW	Qhcks	6.6	12/09/1994	6.6	12/09/1994	6.6	12/09/1994	32482			IRR						
6528-3126	WW				6	15/01/2024	6	15/01/2024	454789			IRR						

Unit_No	TDS	EC	Salinity Date	pH	pH Date	Yield	Yield Date	MGA Easting	MGA Northing	MGA Zone	Hundred	Plan	Parcel	Title
6528-2011	1984	3570	1/12/1996			0.8	1/12/1996	270462.55	6147384.65	54	PORT ADELAIDE	D10135	A223	CT 5143 555
6528-2276						0.54	10/10/1997	270412.53	6147667.78	54	PORT ADELAIDE	D11123	A1751	CT 5366 272
6528-2369	849	1540	24/09/1999			0.89	24/09/1999	270417.78	6147706.54	54	PORT ADELAIDE	D11123	A1763	CT 5247 409
6528-2374	628	1140	30/04/1998			0.53	30/04/1998	270349.83	6147732.48	54	PORT ADELAIDE	D11203	A1777	CT 5129 970
6528-2366	944	1710	12/03/1998			0.54	12/03/1998	270481.79	6147849.55	54	PORT ADELAIDE	D11228	A1880	CT 5192 600
6528-1661	1810	3260	19/05/1994	7.5	19/05/1994	0.75	21/03/1994	270962.45	6147659.87	54	PORT ADELAIDE	D119530	A1	CT 6215 338
6528-1664	760	1379	19/05/1994	7.3	19/05/1994	0.75	27/03/1994	270767.37	6147870	54	PORT ADELAIDE	D11193	A1909	CT 5472 429
6528-2371	849	1540	15/12/1998			0.55	15/12/1998	270525.76	6147812.58	54	PORT ADELAIDE	D11203	A1812	CT 5468 31
6528-1577	766	1391	18/05/1993			0.67	10/03/1993	270912.28	6147560.05	54	PORT ADELAIDE	D10079	A511	CT 5257 66
6528-1639	1077	1950	19/11/1993	7	19/11/1993	0.75	22/10/1993	270827.24	6147184.64	54	PORT ADELAIDE	D9898	A181	CT 5742 375
6528-1662	1895	3410	19/05/1994	7.6	19/05/1994	0.75	28/02/1994	270982.39	6147939.75	54	PORT ADELAIDE	D10177	A616	CT 5104 913
6528-1792	1295	2340	6/01/1995	7.9	6/01/1995	0.68	6/01/1995	270787.42	6147649.95	54	PORT ADELAIDE	D10079	A488	CT 5531 825
6528-1793	1759	3170	5/01/1995	7.4	5/01/1995	0.9	5/01/1995	270442.46	6147924.6	54	PORT ADELAIDE	D22892	A2	CT 5188 138
6528-1964	977	1770	12/12/1995	7.7	12/12/1995	0.8	12/12/1995	270452.36	6147689.64	54	PORT ADELAIDE	D11123	A1765	CT 5360 351
6528-2210	1356	2450	9/12/1997			0.7	9/12/1997	270687.48	6147214.78	54	PORT ADELAIDE	D9898	A271	CT 5364 698
6528-2285	1222	2210	12/03/1998			0.6	12/03/1998	270727.47	6147934.83	54	PORT ADELAIDE	D11187	A1890	CT 5129 893
6528-2370	1479	2670	11/02/1998			0.52	11/02/1998	271026.76	6147460.56	54	PORT ADELAIDE	D10078	A580	CT 5532 22
6528-2377	1077	1950	22/10/1999			0.71	22/10/1999	270721.77	6147906.49	54	PORT ADELAIDE	D11193	A1912	CT 5472 93
6528-2500	1116	2020	27/01/2003			0.5	27/01/2003	270752.26	6147066.55	54	PORT ADELAIDE	D9746	A130	CT 5469 748
6528-1486	1513	2729	31/01/1992	7.9	9/01/1992	0.89	9/01/1992	270536.37	6147541.78	54	PORT ADELAIDE	D9950	A481	CT 5538 372
6528-1625	1839	3310	19/11/1993	7.1	19/11/1993	0.85	25/10/1993	271072.33	6147189.98	54	PORT ADELAIDE	D10078	A601	CT 6121 812
6528-1789	3673	6530	10/11/1994	7.4	10/11/1994	0.86	10/11/1994	270457.19	6147954.61	54	PORT ADELAIDE	D60703	Q1	CT 5900 359
6528-1794	1878	3380	18/01/1995	7.6	18/01/1995	0.9	18/01/1995	270382.23	6147564.79	54	PORT ADELAIDE	D9950	A341	CT 5326 961
6528-1963	1502	2710	7/02/1996	7.3	7/02/1996	0.8	7/02/1996	270412.46	6147699.75	54	PORT ADELAIDE			
6528-2007	1732	3120	7/12/1996			0.8	7/12/1996	270952.53	6147179.88	54	PORT ADELAIDE	D10078	A595	CT 5531 811
6528-2009	1005	1820	5/11/1996			0.8	5/11/1996	270902.49	6147310.06	54	PORT ADELAIDE	F17551	A2	CT 5351 474
6528-1790	1748	3150	3/12/1994	7.5	3/12/1994	0.9	3/12/1994	270422.37	6147874.82	54	PORT ADELAIDE	D112428	A301	CT 6172 887
6528-2289	2984	5330	25/09/1998			0.7	25/09/1998	270497.54	6147889.79	54	PORT ADELAIDE	D11228	A1882	CT 5084 87
6528-1385								270675.38	6147805.88	54	PORT ADELAIDE	D11049	A1727	CT 5444 997
6528-2212	1194	2160	7/04/1998			0.75	7/04/1998	270472.52	6147934.79	54	PORT ADELAIDE	D11228	A1869	CT 5194 486
6528-2290	2205	3960	10/09/1998			0.64	10/09/1998	270752.53	6147939.9	54	PORT ADELAIDE	D11187	A1891	CT 5377 535
6528-1438	1407	2540	30/10/1991	7.2	30/10/1991	0.74	30/10/1991	270513.33	6147206.77	54	PORT ADELAIDE	D10135	A199	CT 5528 292
6528-1439	1564	2820	31/10/1991	7.2	31/10/1991	0.8	31/10/1991	270748.3	6147309.76	54	PORT ADELAIDE	D9898	A255	CT 5568 170
6528-1545	1295	2340	29/06/1992	7.1	7/06/1992	0.89	7/06/1992	270558.39	6147719.71	54	PORT ADELAIDE	D11172	A1794	CT 5138 264
6528-1618	1227	2220	7/09/1993	7.2	7/09/1993	0.75	9/08/1993	270672.34	6147164.79	54	PORT ADELAIDE	D9898	A188	CT 5535 963
6528-1797	1295	2340	1/03/1995	7.7	1/03/1995	0.8	1/03/1995	270892.19	6147179.82	54	PORT ADELAIDE	D9898	A571	CT 5335 549
6528-1862	1351	2440	29/08/1995	7	29/08/1995	0.86	29/08/1995	270422.44	6147849.84	54	PORT ADELAIDE	D11228	A1874	CT 5350 821
6528-2159	1177	2130	2/12/1998			0.64	2/12/1998	270727.52	6147664.88	54	PORT ADELAIDE	D10079	A468	CT 5531 923
6528-2211	1759	3170	10/12/1997			0.89	10/12/1997	270547.53	6147219.72	54	PORT ADELAIDE	D10135	A201	CT 5281 816
6528-2368	1793	3230	6/10/1999			0.89	6/10/1999	270565.79	6147225.5	54	PORT ADELAIDE	D10135	A202	CT 5462 826
6528-1665	1110	2010	19/05/1994	7.2	19/05/1994	0.8	24/03/1994	270847.4	6147374.95	54	PORT ADELAIDE			
6528-1796	1754	3160	16/02/1995	7.4	16/02/1995	0.8	16/02/1995	270457.33	6147919.76	54	PORT ADELAIDE	D11228	A1868	CT 5344 604
6528-1828	1552	2800	19/01/1995	7.1	19/01/1995	0.89	19/01/1995	270502.39	6147479.66	54	PORT ADELAIDE	D10135	A335	CT 5527 904
6528-2274	865	1570	13/05/1997			0.71	13/05/1997	270837.51	6147649.87	54	PORT ADELAIDE	D10079	A491	CT 5091 486
6528-2160	644	1170	18/01/1999			0.74	18/01/1999	270827.47	6147699.9	54	PORT ADELAIDE	D10079	A485	CT 5531 920
6528-2281	1094	1980	7/02/1998			0.62	7/02/1998	270817.48	6147384.75	54	PORT ADELAIDE	D9951	A313	CT 5532 176
6528-2275	871	1580	9/09/1997			0.6	9/09/1997	270752.53	6147499.79	54	PORT ADELAIDE	D9951	A305	CT 5394 306
6528-2373	1127	2040	22/10/1998			0.84	22/10/1998	270896.81	6147398.49	54	PORT ADELAIDE	D9951	A565	CT 5538 381
6528-1859	1580	2850	9/12/1994	7	9/12/1994	0.8	9/12/1994	270702.55	6147249.68	54	PORT ADELAIDE	D9898	A264	CT 5139 804
6528-2095	1188	2150	12/12/1997			0.8	12/12/1997	270787.49	6147254.8	54	PORT ADELAIDE	D9898	A277	CT 5536 609
6528-2286	849	1540	19/03/1998			0.72	19/03/1998	270722.46	6147159.71	54	PORT ADELAIDE	D9898	A186	CT 5126 677
6528-2094	1463	2640	24/11/1997			0.8	24/11/1997	270567.48	6147399.7	54	PORT ADELAIDE	D10135	A229	CT 5151 43
6528-2096	1172	2120	11/02/1998			0.8	11/02/1998	270667.51	6147449.71	54	PORT ADELAIDE	D9952	A292	CT 5533 362
6528-2272	1502	2710	21/11/1996			0.8	21/11/1996	270872.46	6147144.7	54	PORT ADELAIDE	D116373	A33	CT 6197 419
6528-1561	1183	2140	29/01/1993	7.4	29/01/1993	0.85	16/12/1992	270547.43	6147714.77	54	PORT ADELAIDE	D11172	A1794	CT 5138 264
6628-3369	24967	39524	8/10/1954					272319.42	6148271.8	54	PORT ADELAIDE	D121984	A502	CT 6230 998
6528-779	910	1650	22/09/1983	6.7	22/09/1983	0.6	20/09/1983	271095.36	6147158.8	54	PORT ADELAIDE	D8615	A708	CT 5537 275
6528-789	1166	2110	21/12/1983	7.8	21/12/1983	0.6	8/12/1983	270455.32	6147545.75	54	PORT ADELAIDE	D9950	A338	CT 5537 57
6528-860	925	1676	21/06/1984	7.7	21/06/1984	0.7	21/06/1984	270696.31	6148023.85	54	PORT ADELAIDE	F142440	A99	CT 5792 809
6528-1360	895	1622	6/11/1989	7.4	23/10/1989	0.6	23/10/1989	271163.37	6147688.85	54	PORT ADELAIDE	D10173	A47	CT 6132 427
6628-19849	3275	5840	23/11/1985	7.4	23/11/1985	0.6	14/11/1985	271313.32	6147837.88	54	PORT ADELAIDE	D111117	A711	CT 6168 59
6528-1043	728	1320	25/11/1985	7.4	25/11/1985	0.6	12/11/1985	270675.38	6147585.77	54	PORT ADELAIDE	D11018	A1714	CT 5841 249
6528-807	1049	1900	2/05/1984	7.5	2/05/1984	0.6	25/04/1984	271008.34	6147482.86	54	PORT ADELAIDE	D10079	A537	CT 5531 359
6528-863	1452	2620	1/03/1984	7.2	1/03/1984	0.5	1/03/1984	271224.31	6147609.9	54	PORT ADELAIDE	D10173	A96	CT 5529 142
6528-801	1765	3180	8/03/1984	7.6	8/03/1984	0.6	5/03/1984	270546.47	6147441.91	54	PORT ADELAIDE	D10135	A322	CT 5527 811
6528-862								270377.34	6147730.72	54	PORT ADELAIDE	D11203	A1775	CT 5468 30
6528-800	1440	2600	8/03/1983	7.5	8/03/1983	0.6	7/03/1984	270721.35	6147244.71	54	PORT ADELAIDE	D9898	A265	CT 5315 867
6528-1373	838	1520	4/04/1990	7.4	28/03/1990	0.6	28/03/1990	270817.31	6147853.82	54	PORT ADELAIDE	S6997		
6528-551	1160	2100	27/10/1980	7.5	27/10/1980			270612.31	6147540.79	54	PORT ADELAIDE	D9950	A478	CT 5539 627
6528-1736	1255	2270	18/10/1994	7	18/10/1994	0.8	18/10/1994	270912.41	6147664.83	54	PORT ADELAIDE	D10079	A504	CT 5402 211
6528-1689	1105	2000	12/09/1994	7.2	12/09/1994	0.9	12/09/1994	270477.38	6147329.85	54	PORT ADELAIDE	D10135	A219	CT 5144 291
6528-3126	2019	3630	15/01/2024			0.4	15/01/2024	270454.79	6147876.25	54	PORT ADELAIDE	D11228	A1871	CT 5465 550

Appendix O Groundwater Laboratory Certificates of Analysis and Chain of Custody Documentation

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch1_130624	SAMPLERS: AB
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY / METHOD OF SHIPMENT: Overnight
NAME : Amanda Bowne	DATE: 13/06/24	NAME : DATE: / CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30pm	OF: TIME:
NAME:	DATE:	NAME : DATE: / TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au javers@jbsg.com.au abowne@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			PFAS (30)	B10A (TRH/BTEX, PAH, OCPs, PCBs, HM6)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane	Turbidity / TSS / TDS / Salinity	pH / DO / biochemical O2 demand	Total N / Ammonia / Nitrate / TKN / Total P	Chloride (soluable)	Sulfate (soluable)	Oil and grease	B6 (TRH/BTEX/M6)	NOTES
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
GW01	N/A	N/A	Water	13/06/2024		2x pink vials, 2x ornage vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS, 4x other	13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GW02	N/A	N/A	Water	13/06/2024		2x pink vials, 2x ornage vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS, 4x other	13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GW03	N/A	N/A	Water	13/06/2024		2x pink vials, 2x ornage vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS, 4x other	13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW04	N/A	N/A	Water	13/06/2024		2x pink vials, 2x ornage vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS, 4x other	13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
RB01	N/A	N/A	Water	13/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS	5		X																X	
TB01	N/A	N/A	Water	13/06/2024		1x PFAS	1		X																	
								TOTAL	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	

Collected
EF
14/6 12.59 pm

1107846

Jessica Sheppard

From: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Sent: Friday, 14 June 2024 12:59 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Completed COC for groundwater samples sent yesterday (JBS&G project: 67064 Osborne)
Attachments: GW_Batch 1_COC_130624.pdf

Importance: High

Hi Jess- COC attached

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

My office hours are 9am to 5:30pm (Monday to Friday)
If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Friday, June 14, 2024 11:40 AM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Subject: Completed COC for groundwater samples sent yesterday (JBS&G project: 67064 Osborne)
Importance: High

Hi Amy,

Please find attached completed COC for groundwater samples collected yesterday (13th June) and dropped to Parimal by 3.30pm for overnight delivery to Melbourne. Can you please confirm you have received them?

Please note some analysis has very short holding time (48hr) – please ensure extraction / analysis is performed within holding time.

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PROJECT INFORMATION

Date Received: 13/6/24

Company: JBSG

Contact person: Amanda Bourne

Contact Number: 0415 486 860

Contact E-mail: abourne@jbsg.com.au

Project Name/site: 64648 – Osborne

Project Number: 64648

COC: Attached ☐
E-mailed ☒
Not received ☐

13.1°C
− 0.1°C
13.0°C
on IB.

OFFICIAL

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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NATA# 2377
Site# 2370

Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

Perth ProMicro
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Welshpool
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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: OSBORNE EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 14, 2024 12:59 PM
Eurofins reference 1107846

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1107846-W-V2**
Project name OSBORNE EIS
Project ID 67064
Received Date Jun 14, 2024

Client Sample ID			**GW01**	**GW02**	**GW03**	**MW04**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M24-Jn0033773**	**M24-Jn0033774**	**M24-Jn0033775**	**M24-Jn0033776**
Date Sampled			**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**	**Jun 13, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	[G01]< 0.2	[G01]< 0.5	< 0.02	0.06
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.62
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.7
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	1.32
TRH C6-C10	0.02	mg/L	[G01]< 0.2	[G01]< 0.5	< 0.02	0.06
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.2	< 0.5	< 0.02	0.06
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	1.0
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	1
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.2
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	1.2
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.01
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.015
4-Bromofluorobenzene (surr.)	1	%	84	99	94	79
Dissolved Gases						
Methane	0.05	mg/L	0.10	< 0.05	1.6	0.31
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.11
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.49
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	0.002	0.006
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.025
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.01
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.005
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.015
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.01
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.025
4-Bromofluorobenzene (surr.)	1	%	84	99	94	79
Toluene-d8 (surr.)	1	%	93	102	102	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.05

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	65	63	78	94
p-Terphenyl-d14 (surr.)	1	%	149	102	146	92
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	109	78	139	66
Tetrachloro-m-xylene (surr.)	1	%	80	81	109	84

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchlorendate (surr.)	1	%	109	78	139	66
Tetrachloro-m-xylene (surr.)	1	%	80	81	109	84
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.21
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Total cresols*	0.01	mg/L	< 0.01	< 0.01	< 0.01	0.21
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	0.098
Phenol-d6 (surr.)	1	%	107	80	122	49
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.3
Organotins						
Tributyltin	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Tributyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tributyltin Oxide	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Dibutyltin	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Monobutyltin	0.0075	mg/L	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Monobutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tripropyltin as Sn (surr.)	1	%	59	58	int	68
Ammonia (as N)	0.01	mg/L	3.3	1.2	46	130
Biochemical Oxygen Demand (BOD-5 Day)	5	mg/L	6.3	6.3	190	2200
Chloride	1	mg/L	19000	18000	21000	100000
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.25

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Cyanide (total)	0.005	mg/L	< 0.005	< 0.005	< 0.005	0.15
Dissolved Oxygen	0.01	mg/L	9.6	9.4	9.5	0.51
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	< 0.05	< 0.5	15
Nitrate (as N)	0.02	mg/L	0.03	0.03	< 0.2	< 2
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.2	< 2
Oil & Grease (HEM)	10	mg/L	24	34	37	20
Organic Nitrogen (as N)*	0.2	mg/L	< 0.2	0.3	16	80
pH (at 25 °C)	0.1	pH Units	7.5	7.4	7.3	12
Salinity (expressed as TDS)*	10	mg/L	46000	29000	91000	83000
Sulphate (as SO4)	5	mg/L	3000	3000	2000	10000
Total Dissolved Solids Dried at 180 °C ± 2 °C	10	mg/L	46000	29000	91000	83000
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	3.4	1.5	62	210
Total Nitrogen (as N)*	0.2	mg/L	3.4	1.5	62	230
Total Suspended Solids Dried at 103 °C to 105 °C	5	mg/L	97	140	120	170
Turbidity	1	NTU	11	4.6	460	6.0
Phosphate total (as P)	0.01	mg/L	0.05	0.46	0.77	6.2
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.003	0.003	0.14	0.14
Cadmium (filtered)	0.0002	mg/L	< 0.001	< 0.001	< 0.002	< 0.02
Chromium (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Copper (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Lead (filtered)	0.001	mg/L	< 0.005	< 0.005	< 0.01	< 0.1
Mercury (filtered)	0.0001	mg/L	< 0.005	< 0.005	< 0.001	< 0.01
Molybdenum (filtered)	0.005	mg/L	< 0.025	< 0.025	< 0.05	< 0.5
Nickel (filtered)	0.001	mg/L	0.001	< 0.005	< 0.01	0.18
Selenium (filtered)	0.001	mg/L	< 0.005	0.014	0.021	1.4
Zinc (filtered)	0.005	mg/L	< 0.025	< 0.025	< 0.01	< 0.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.03	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	72	67	67	74
13C5-PFPeA (surr.)	1	%	128	118	88	92
13C5-PFHxA (surr.)	1	%	127	116	98	80
13C4-PFHpA (surr.)	1	%	118	105	98	23
13C8-PFOA (surr.)	1	%	114	96	108	65
13C5-PFNA (surr.)	1	%	104	86	90	82
13C6-PFDA (surr.)	1	%	84	75	69	90
13C2-PFUnDA (surr.)	1	%	95	87	82	130
13C2-PFDoDA (surr.)	1	%	68	79	72	124
13C2-PFTeDA (surr.)	1	%	32	88	41	124

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Client Sample ID			GW01	GW02	GW03	MW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0033773	M24-Jn0033774	M24-Jn0033775	M24-Jn0033776
Date Sampled			Jun 13, 2024	Jun 13, 2024	Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	104	92	76	85
D3-N-MeFOSA (surr.)	1	%	54	70	40	63
D5-N-EtFOSA (surr.)	1	%	58	70	39	74
D7-N-MeFOSE (surr.)	1	%	74	68	53	77
D9-N-EtFOSE (surr.)	1	%	79	75	61	84
D5-N-EtFOSAA (surr.)	1	%	60	60	73	165
D3-N-MeFOSAA (surr.)	1	%	65	62	57	199
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	100	91	84	27
18O2-PFHxS (surr.)	1	%	95	86	87	64
13C8-PFOS (surr.)	1	%	82	73	79	67
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	128	95	115	38
13C2-6:2 FTSA (surr.)	1	%	111	73	102	124
13C2-8:2 FTSA (surr.)	1	%	75	62	67	190
13C2-10:2 FTSA (surr.)	1	%	77	77	59	197
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.1	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.12	< 0.1	< 0.1	< 0.1

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	91	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	95
13C5-PFPeA (surr.)	1	%	125	129
13C5-PFHxA (surr.)	1	%	118	120
13C4-PFHpA (surr.)	1	%	106	106
13C8-PFOA (surr.)	1	%	100	105

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFNA (surr.)	1	%	99	107
13C6-PFDA (surr.)	1	%	89	94
13C2-PFUnDA (surr.)	1	%	111	114
13C2-PFDoDA (surr.)	1	%	90	91
13C2-PFTeDA (surr.)	1	%	65	61
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	69	114
D3-N-MeFOSA (surr.)	1	%	100	42
D5-N-EtFOSA (surr.)	1	%	106	41
D7-N-MeFOSE (surr.)	1	%	38	95
D9-N-EtFOSE (surr.)	1	%	45	103
D5-N-EtFOSAA (surr.)	1	%	82	83
D3-N-MeFOSAA (surr.)	1	%	77	85
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	95
18O2-PFHxS (surr.)	1	%	84	88
13C8-PFOS (surr.)	1	%	87	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	91	91
13C2-6:2 FTSA (surr.)	1	%	70	61
13C2-8:2 FTSA (surr.)	1	%	73	76
13C2-10:2 FTSA (surr.)	1	%	114	100

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Client Sample ID			RB01	TB01
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0033777	M24-Jn0033778
Date Sampled			Jun 13, 2024	Jun 13, 2024
Test/Reference	LOR	Unit		
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8 filtered			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8 filtered	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Dissolved Gases	Melbourne	Jun 17, 2024	14 Days
- Method: in-house method LTM-ORG-2070 by Headspace GC-FID			
Volatile Organics	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Organotins	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Biochemical Oxygen Demand (BOD-5 Day)	Melbourne	Jun 15, 2024	2 Days
- Method: LTM-INO-4010 Biochemical Oxygen Demand (BOD5) in Water			
Chloride	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
Chromium (hexavalent)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Jun 17, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Dissolved Oxygen	Melbourne	Jun 19, 2024	28 Days
- Method: APHA 4500-O B, C, G using Dissolved Oxygen analyser			
Oil & Grease (HEM)	Melbourne	Jun 21, 2024	28 Days
- Method: LTM-INO-4180 Oil and Grease			
pH (at 25 °C)	Melbourne	Jun 15, 2024	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Salinity (expressed as TDS)*	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-INO-4030			
Sulphate (as SO4)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
Total Suspended Solids Dried at 103 °C to 105 °C	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Turbidity	Melbourne	Jun 17, 2024	28 Days
- Method: Turbidity by classical using APHA 2130B (LTM-INO-4140)			
Phosphate total (as P)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Heavy Metals (filtered)	Melbourne	Jun 17, 2024	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Phenols (Speciated)			
Phenols (Halogenated)	Melbourne	Jun 17, 2024	7 Days

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Description	Testing Site	Extracted	Holding Time
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 17, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, NH3, Total P			
Ammonia (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrate & Nitrite (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrate (as N)	Melbourne	Jun 15, 2024	28 Days
- Method: LTM-INO-4450 Determination of Nitrogen Species by Discrete Analyser			
Nitrite (as N)	Melbourne	Jun 15, 2024	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Organic Nitrogen (as N)*	Melbourne	Jun 14, 2024	7 Days
- Method: APHA 4500 Organic Nitrogen (N)			
Total Kjeldahl Nitrogen (as N)	Melbourne	Jun 17, 2024	28 Days
- Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-INO-4170 Total Dissolved Solids in Water			
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 17, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 14, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project ID: 67064

Order No.:
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Fax: 08 8431 7115

Received: Jun 14, 2024 12:59 PM
Due: Jun 21, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Biochemical Oxygen Demand (BOD-5 Day)	Chloride	Chromium (hexavalent)	Cyanide (total)	Dissolved Oxygen	Methane	Molybdenum (filtered)	Oil & Grease (HEM)	pH (at 25 °C)	Phosphate total (as P)	Salinity (expressed as TDS)*	Selenium (filtered)	Sulphate (as SO4)	Total Suspended Solids Dried at 103 °C to 105 °C	Turbidity	Phenols (Speciated)	Volatile Organics	Eurofins Suite B6: BTEX/TRH/M8	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, NH3, Total P	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Total Dissolved Solids Dried at 180 °C ± 2 °C	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																							
1	GW01	Jun 13, 2024		Water	M24-Jn0033773	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
2	GW02	Jun 13, 2024		Water	M24-Jn0033774	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
3	GW03	Jun 13, 2024		Water	M24-Jn0033775	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
4	MW04	Jun 13, 2024		Water	M24-Jn0033776	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
5	RB01	Jun 13, 2024		Water	M24-Jn0033777																		X		X			
6	TB01	Jun 13, 2024		Water	M24-Jn0033778																				X			
Test Counts						4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	6	4	4	4

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Organotins							
Tributyltin	mg/L	< 0.0125			0.0125	Pass	
Tributyltin as Sn	mg/L	< 0.005			0.005	Pass	
Tributyltin Oxide	mg/L	< 0.0125			0.0125	Pass	
Dibutyltin	mg/L	< 0.01			0.01	Pass	
Dibutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Monobutyltin	mg/L	< 0.0075			0.0075	Pass	
Monobutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Biochemical Oxygen Demand (BOD-5 Day)	mg/L	< 5			5	Pass	
Chloride	mg/L	< 1			1	Pass	
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cyanide (total)	mg/L	< 0.005			0.005	Pass	
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Oil & Grease (HEM)	mg/L	< 10			10	Pass	
Salinity (expressed as TDS)*	mg/L	< 10			10	Pass	
Sulphate (as SO4)	mg/L	< 5			5	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 10			10	Pass	
Total Kjeldahl Nitrogen (as N)	mg/L	< 0.2			0.2	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	mg/L	< 5			5	Pass	
Turbidity	NTU	< 1			1	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Phosphate total (as P)	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	118			70-130	Pass	
TRH C10-C14	%	102			70-130	Pass	
TRH C6-C10	%	119			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	96			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Dissolved Gases							
Methane	%	73			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	98			70-130	Pass	
1.2-Dichlorobenzene	%	93			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Trichloroethene	%	115			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	102			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	108			70-130	Pass	
4.4'-DDD	%	130			70-130	Pass	
4.4'-DDE	%	111			70-130	Pass	
4.4'-DDT	%	94			70-130	Pass	
a-HCH	%	105			70-130	Pass	
Aldrin	%	100			70-130	Pass	
b-HCH	%	128			70-130	Pass	
d-HCH	%	122			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	128			70-130	Pass	
Endosulfan II	%	117			70-130	Pass	
Endosulfan sulphate	%	123			70-130	Pass	
Endrin	%	100			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	120			70-130	Pass	
g-HCH (Lindane)	%	116			70-130	Pass	
Heptachlor	%	112			70-130	Pass	
Heptachlor epoxide	%	98			70-130	Pass	
Hexachlorobenzene	%	111			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	108			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	110			25-140	Pass	
2.4-Dichlorophenol	%	103			25-140	Pass	
2.4.5-Trichlorophenol	%	101			25-140	Pass	
2.4.6-Trichlorophenol	%	90			25-140	Pass	
2.6-Dichlorophenol	%	83			25-140	Pass	
4-Chloro-3-methylphenol	%	90			25-140	Pass	
Pentachlorophenol	%	99			25-140	Pass	
Tetrachlorophenols - Total	%	90			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	62			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	80			25-140	Pass	
2-Nitrophenol	%	78			25-140	Pass	
2.4-Dimethylphenol	%	34			25-140	Pass	
2.4-Dinitrophenol	%	73			25-140	Pass	
2-Methylphenol (o-Cresol)	%	84			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	81			25-140	Pass	
4-Nitrophenol	%	85			25-140	Pass	
Dinoseb	%	97			25-140	Pass	
Phenol	%	92			25-140	Pass	

eurofins | Environment Testing

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	99			60-140	Pass	
Dibutyltin as Sn	%	123			60-140	Pass	
Monobutyltin as Sn	%	80			60-140	Pass	
LCS - % Recovery							
Biochemical Oxygen Demand (BOD-5 Day)	%	86			85-115	Pass	
Chloride	%	100			70-130	Pass	
Chromium (hexavalent)	%	91			70-130	Pass	
Cyanide (total)	%	104			70-130	Pass	
Nitrate & Nitrite (as N)	%	109			70-130	Pass	
Nitrite (as N)	%	95			70-130	Pass	
Oil & Grease (HEM)	%	102			70-130	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	%	89			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	%	100			70-130	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	%	115			70-130	Pass	
Turbidity	%	92			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	104			80-120	Pass	
Cadmium (filtered)	%	108			80-120	Pass	
Chromium (filtered)	%	108			80-120	Pass	
Copper (filtered)	%	106			80-120	Pass	
Lead (filtered)	%	107			80-120	Pass	
Mercury (filtered)	%	99			80-120	Pass	
Molybdenum (filtered)	%	106			80-120	Pass	
Nickel (filtered)	%	111			80-120	Pass	
Selenium (filtered)	%	103			80-120	Pass	
Zinc (filtered)	%	114			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	91			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	86			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	87			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	91			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	82			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	88			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	97			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	93			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	%	89			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	72			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	89			50-150	Pass	
LCS - % Recovery							
Sulphate (as SO4)	%	114			70-130	Pass	
Phosphate total (as P)	%	97			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	118			70-130	Pass	
Phosphate total (as P)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	94			80-120	Pass	
Mercury	%	92			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	102			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M24-Jn0038735	NCP	%	82			70-130	Pass	
TRH >C10-C16	M24-Jn0038735	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Dissolved Gases				Result 1					
Methane	L24-Jn0026932	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0040016	NCP	%	96			70-130	Pass	
Acenaphthylene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Anthracene	M24-Jn0040016	NCP	%	88			70-130	Pass	
Benz(a)anthracene	M24-Jn0040016	NCP	%	79			70-130	Pass	
Benzo(a)pyrene	M24-Jn0040016	NCP	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0040016	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0040016	NCP	%	72			70-130	Pass	
Chrysene	M24-Jn0040016	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Fluoranthene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Fluorene	M24-Jn0040016	NCP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Naphthalene	M24-Jn0040016	NCP	%	94			70-130	Pass	
Phenanthrene	M24-Jn0040016	NCP	%	93			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0040016	NCP	%	100			70-130	Pass	
4.4'-DDD	M24-Jn0040016	NCP	%	123			70-130	Pass	
4.4'-DDE	M24-Jn0040016	NCP	%	122			70-130	Pass	
4.4'-DDT	M24-Jn0040016	NCP	%	121			70-130	Pass	
a-HCH	M24-Jn0040016	NCP	%	120			70-130	Pass	
Aldrin	M24-Jn0040016	NCP	%	80			70-130	Pass	
b-HCH	M24-Jn0040016	NCP	%	114			70-130	Pass	
d-HCH	M24-Jn0040016	NCP	%	128			70-130	Pass	
Dieldrin	M24-Jn0040016	NCP	%	109			70-130	Pass	
Endosulfan I	M24-Jn0040016	NCP	%	117			70-130	Pass	
Endosulfan II	M24-Jn0040016	NCP	%	125			70-130	Pass	
Endosulfan sulphate	M24-Jn0040016	NCP	%	114			70-130	Pass	
Endrin	M24-Jn0040016	NCP	%	120			70-130	Pass	
Endrin aldehyde	M24-Jn0040016	NCP	%	127			70-130	Pass	
Endrin ketone	M24-Jn0040016	NCP	%	121			70-130	Pass	
g-HCH (Lindane)	M24-Jn0040016	NCP	%	110			70-130	Pass	
Heptachlor	M24-Jn0040016	NCP	%	108			70-130	Pass	
Heptachlor epoxide	M24-Jn0040016	NCP	%	90			70-130	Pass	
Hexachlorobenzene	M24-Jn0040016	NCP	%	109			70-130	Pass	
Methoxychlor	M24-Jn0040016	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0040016	NCP	%	101			70-130	Pass	
Aroclor-1260	M24-Jn0040016	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M24-Jn0040016	NCP	%	92			30-130	Pass	
2.4-Dichlorophenol	M24-Jn0040016	NCP	%	110			30-130	Pass	
2.4.5-Trichlorophenol	M24-Jn0040016	NCP	%	121			30-130	Pass	
2.4.6-Trichlorophenol	M24-Jn0040016	NCP	%	109			30-130	Pass	
2.6-Dichlorophenol	M24-Jn0040016	NCP	%	91			30-130	Pass	
4-Chloro-3-methylphenol	M24-Jn0040016	NCP	%	98			30-130	Pass	
Pentachlorophenol	M24-Jn0040016	NCP	%	43			30-130	Pass	
Tetrachlorophenols - Total	M24-Jn0040016	NCP	%	50			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0040016	NCP	%	105			30-130	Pass	
2-Nitrophenol	M24-Jn0040016	NCP	%	114			30-130	Pass	
2.4-Dimethylphenol	M24-Jn0040016	NCP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0040016	NCP	%	115			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0040016	NCP	%	102			30-130	Pass	
4-Nitrophenol	M24-Jn0040016	NCP	%	39			30-130	Pass	
Dinoseb	M24-Jn0040016	NCP	%	106			30-130	Pass	
Phenol	M24-Jn0040016	NCP	%	96			30-130	Pass	
Spike - % Recovery									
				Result 1					
Chloride	M24-Jn0035052	NCP	%	114			70-130	Pass	
Chromium (hexavalent)	M24-Jn0035070	NCP	%	104			70-130	Pass	
Cyanide (total)	L24-Jn0033249	NCP	%	75			70-130	Pass	
Nitrate & Nitrite (as N)	M24-Jn0033545	NCP	%	107			70-130	Pass	
Nitrite (as N)	M24-Jn0033545	NCP	%	92			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Sulphate (as SO4)	M24-Jn0028902	NCP	%	114			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	M24-Jn0033545	NCP	%	118			70-130	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	M24-Jn0035577	NCP	%	108			70-130	Pass	
Phosphate total (as P)	M24-Jn0033409	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Molybdenum (filtered)	M24-Jn0033773	CP	%	89			75-125	Pass	
Selenium (filtered)	M24-Jn0033773	CP	%	97			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0028897	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0028897	NCP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0028897	NCP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0028897	NCP	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0028897	NCP	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0028897	NCP	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0028897	NCP	%	75			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0028897	NCP	%	86			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0028897	NCP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0028897	NCP	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0028897	NCP	%	100			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0028897	NCP	%	105			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0028897	NCP	%	98			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0028897	NCP	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0028897	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0028897	NCP	%	88			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0028897	NCP	%	83			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0028897	NCP	%	70			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0028897	NCP	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0028897	NCP	%	99			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0028897	NCP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0028897	NCP	%	61			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0028897	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0028897	NCP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0028897	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0028897	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0033405	NCP	%	74			70-130	Pass	
TRH C6-C10	M24-Jn0033405	NCP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0033405	NCP	%	89			70-130	Pass	
Toluene	M24-Jn0033405	NCP	%	83			70-130	Pass	
Ethylbenzene	M24-Jn0033405	NCP	%	77			70-130	Pass	
m&p-Xylenes	M24-Jn0033405	NCP	%	77			70-130	Pass	
o-Xylene	M24-Jn0033405	NCP	%	78			70-130	Pass	
Xylenes - Total*	M24-Jn0033405	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0033405	NCP	%	98			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0033405	NCP	%	78			70-130	Pass	
1.2-Dichloroethane	M24-Jn0033405	NCP	%	91			70-130	Pass	
Trichloroethene	M24-Jn0033405	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0033405	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-Jn0032187	NCP	%	114			75-125	Pass	
Cadmium	M24-Jn0032187	NCP	%	111			75-125	Pass	
Chromium	M24-Jn0032187	NCP	%	112			75-125	Pass	
Copper	M24-Jn0036285	NCP	%	90			75-125	Pass	
Lead	M24-Jn0032187	NCP	%	105			75-125	Pass	
Mercury	M24-Jn0036285	NCP	%	96			75-125	Pass	
Nickel	M24-Jn0032187	NCP	%	109			75-125	Pass	
Zinc	M24-Jn0032187	NCP	%	112			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0036254	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M24-Jn0038734	NCP	mg/L	0.11	0.11	<1	30%	Pass	
TRH C15-C28	M24-Jn0038734	NCP	mg/L	< 0.1	0.1	99	30%	Fail	Q15
TRH C29-C36	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-Jn0036254	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-Jn0038734	NCP	mg/L	0.17	0.18	2.8	30%	Pass	
TRH >C16-C34	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-Jn0038734	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-Jn0036254	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-Jn0036254	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Dissolved Gases				Result 1	Result 2	RPD			
Methane	M24-Jn0033407	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

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Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
trans-1.3-Dichloropropene	M24-Jn0036254	NCP	mg/L	0.003	0.003	19	30%	Pass	
Trichloroethene	M24-Jn0036254	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	M24-Jn0036254	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0036254	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M24-Jn0035058	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0035058	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M24-Jn0035058	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	M24-Jn0035058	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4.5-Trichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4.6-Trichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.6-Dichlorophenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Pentachlorophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Tetrachlorophenols - Total	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Nitrophenol	M24-Jn0035058	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4-Dimethylphenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dinitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0035058	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
4-Nitrophenol	M24-Jn0035058	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Dinoseb	M24-Jn0035058	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Phenol	M24-Jn0035058	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Tributyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tributyltin Oxide	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Dibutyltin	S24-Jn0010679	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Dibutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Monobutyltin	S24-Jn0010679	NCP	mg/L	< 0.0075	< 0.0075	<1	30%	Pass	
Monobutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M24-Jn0033408	NCP	mg/L	0.94	0.90	4.2	30%	Pass	
Biochemical Oxygen Demand (BOD-5 Day)	M24-Jn0028552	NCP	mg/L	51	53	2.2	30%	Pass	
Chromium (hexavalent)	M24-Jn0017406	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cyanide (total)	L24-Jn0033250	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nitrate & Nitrite (as N)	M24-Jn0033408	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Nitrite (as N)	M24-Jn0033408	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
pH (at 25 °C)	M24-Jn0035571	NCP	pH Units	8.7	8.7	pass	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	M24-Jn0036291	NCP	mg/L	4300	3800	12	30%	Pass	
Total Suspended Solids Dried at 103 °C to 105 °C	M24-Jn0031891	NCP	mg/L	< 5	5.0	22	30%	Pass	
Turbidity	M24-Jn0031893	NCP	NTU	5.1	4.9	5.4	30%	Pass	
Phosphate total (as P)	M24-Jn0035570	NCP	mg/L	0.05	0.05	7.7	30%	Pass	

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Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0033405	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
				Result 1	Result 2	RPD			
Dissolved Oxygen	M24-Jn0033774	CP	mg/L	9.4	9.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	M24-Jn0033775	CP	mg/L	21000	21000	<1	30%	Pass	
Sulphate (as SO4)	M24-Jn0033775	CP	mg/L	2000	2000	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Kjeldahl Nitrogen (as N)	M24-Jn0033776	CP	mg/L	210	220	3.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M24-Jn0032187	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M24-Jn0036285	NCP	mg/L	0.011	0.011	4.4	30%	Pass	
Lead	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M24-Jn0036285	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-Jn0032187	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M24-Jn0032187	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Comments

This report has been revised V2 to fix QA/QC fails within the report. Also holding times have been adjusted to reflect the true extraction date.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mele Singh	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch3_140624	SAMPLERS: AB	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: **Standard TAT**	REPORT NEEDED BY: **Standard TAT**	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 67064	**QUOTE #:**	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		**RECEIVED BY**	METHOD OF SHIPMENT: Overnight
NAME : Amanda Bowne	DATE: 14/06/24	NAME : Paterna DATE: 17/06	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 4.30pm	OF: Eurofins TIME: 1pm	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME:
OF:	TIME:	OF: TIME:	

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	**Please forward results and invoice to:** labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au abowne@jbsg.com.au	

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	B10A (TRH/BTEX, PAH, OCPs, PCBs, HM8)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane							'NOTES
MW08	N/A	N/A	Water	14/06/2024		2x pink vials, 2x ornage vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		x	x	x	x	x	x	x	x	x							
								TOTAL	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	

8.9°C
−0.1°C
8.8°C
on IB

#1108287
Paterna

OFFICIAL

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

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Welshpool
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NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: OSBORNE EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 17, 2024 1:00 PM
Eurofins reference 1108287

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1108287-W**
Project name OSBORNE EIS
Project ID 67064
Received Date Jun 17, 2024

Client Sample ID			**MW08**
Sample Matrix			**Water**
Eurofins Sample No.			**M24-Jn0038797**
Date Sampled			**Jun 14, 2024**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	0.03
TRH C10-C14	0.05	mg/L	0.35
TRH C15-C28	0.1	mg/L	0.3
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.65
TRH C6-C10	0.02	mg/L	0.03
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	0.03
TRH >C10-C16	0.05	mg/L	0.54
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	0.54
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.54
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	102
Dissolved Gases			
Methane	0.05	mg/L	0.61
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001

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Client Sample ID			MW08
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0038797
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Volatile Organics			
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.005	mg/L	0.052
2-Propanone (Acetone)	0.005	mg/L	0.43
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001
Bromomethane	0.005	mg/L	< 0.005
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.005	mg/L	< 0.005
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.005	mg/L	< 0.005
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.005	mg/L	< 0.005
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.005	mg/L	< 0.005
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.005	mg/L	< 0.005
Vinyl chloride	0.005	mg/L	< 0.005
Xylenes - Total*	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	102
Toluene-d8 (surr.)	1	%	80
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01

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Client Sample ID			MW08
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0038797
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	100
p-Terphenyl-d14 (surr.)	1	%	87
Organochlorine Pesticides			
Chlordanes - Total	0.002	mg/L	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002
Endrin	0.0002	mg/L	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002
Toxaphene	0.005	mg/L	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002
Dibutylchlorendate (surr.)	1	%	106
Tetrachloro-m-xylene (surr.)	1	%	79

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Client Sample ID			MW08
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0038797
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Polychlorinated Biphenyls			
Aroclor-1016	0.005	mg/L	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005
Total PCB*	0.005	mg/L	< 0.005
Dibutylchlorendate (surr.)	1	%	106
Tetrachloro-m-xylene (surr.)	1	%	79
Phenols (Halogenated)			
2-Chlorophenol	0.003	mg/L	< 0.003
2.4-Dichlorophenol	0.003	mg/L	< 0.003
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01
Phenols (non-Halogenated)			
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03
2-Nitrophenol	0.01	mg/L	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	0.004
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006
Total cresols*	0.01	mg/L	< 0.01
4-Nitrophenol	0.03	mg/L	< 0.03
Dinoseb	0.1	mg/L	< 0.1
Phenol	0.003	mg/L	0.018
Phenol-d6 (surr.)	1	%	24
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1
Organotins			
Tributyltin	0.0125	mg/L	< 0.0125
Tributyltin as Sn	0.005	mg/L	< 0.005
Tributyltin Oxide	0.0125	mg/L	< 0.0125
Dibutyltin	0.01	mg/L	< 0.01
Dibutyltin as Sn	0.005	mg/L	< 0.005
Monobutyltin	0.0075	mg/L	< 0.0075
Monobutyltin as Sn	0.005	mg/L	< 0.005
Tripropyltin as Sn (surr.)	1	%	73
Chromium (hexavalent)	0.005	mg/L	< 0.005
Cyanide (total)	0.005	mg/L	0.083

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Client Sample ID			MW08
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0038797
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic (filtered)	0.001	mg/L	< 0.01
Cadmium (filtered)	0.0002	mg/L	< 0.001
Chromium (filtered)	0.001	mg/L	< 0.01
Copper (filtered)	0.001	mg/L	< 0.01
Lead (filtered)	0.001	mg/L	< 0.005
Mercury (filtered)	0.0001	mg/L	0.0017
Molybdenum (filtered)	0.005	mg/L	< 0.05
Nickel (filtered)	0.001	mg/L	0.021
Selenium (filtered)	0.001	mg/L	1.3
Zinc (filtered)	0.005	mg/L	< 0.01
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.04
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	120
13C5-PFPeA (surr.)	1	%	135
13C5-PFHxA (surr.)	1	%	61
13C4-PFHpA (surr.)	1	%	72
13C8-PFOA (surr.)	1	%	111
13C5-PFNA (surr.)	1	%	99
13C6-PFDA (surr.)	1	%	99
13C2-PFUnDA (surr.)	1	%	98
13C2-PFDoDA (surr.)	1	%	88
13C2-PFTeDA (surr.)	1	%	100
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	101
D3-N-MeFOSA (surr.)	1	%	157
D5-N-EtFOSA (surr.)	1	%	153
D7-N-MeFOSE (surr.)	1	%	110
D9-N-EtFOSE (surr.)	1	%	104

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Client Sample ID			MW08
Sample Matrix			Water
Eurofins Sample No.			M24-Jn0038797
Date Sampled			Jun 14, 2024
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonamido substances			
D5-N-EtFOSAA (surr.)	1	%	163
D3-N-MeFOSAA (surr.)	1	%	133
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01
13C3-PFBS (surr.)	1	%	75
18O2-PFHxS (surr.)	1	%	83
13C8-PFOS (surr.)	1	%	88
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01
13C2-4:2 FTSA (surr.)	1	%	54
13C2-6:2 FTSA (surr.)	1	%	133
13C2-8:2 FTSA (surr.)	1	%	124
13C2-10:2 FTSA (surr.)	1	%	184
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8 filtered			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 18, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8 filtered	Melbourne	Jun 18, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Dissolved Gases	Melbourne	Jun 18, 2024	14 Days
- Method: in-house method LTM-ORG-2070 by Headspace GC-FID			
Volatile Organics	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Organotins	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Chromium (hexavalent)	Melbourne	Jun 18, 2024	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Jun 18, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Heavy Metals (filtered)	Melbourne	Jun 18, 2024	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Phenols (Speciated)			
Phenols (Halogenated)	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 18, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 18, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 17, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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ABN: 50 005 085 521

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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1108287
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 1:00 PM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Chromium (hexavalent)	Cyanide (total)	Methane	Molybdenum (filtered)	Selenium (filtered)	Phenols (Speciated)	Volatile Organics	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW08	Jun 14, 2024		Water	M24-Jn0038797	X	X	X	X	X	X	X	X	X	X
Test Counts						1	1	1	1	1	1	1	1	1	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Organotins							
Tributyltin	mg/L	< 0.0125			0.0125	Pass	
Tributyltin as Sn	mg/L	< 0.005			0.005	Pass	
Tributyltin Oxide	mg/L	< 0.0125			0.0125	Pass	
Dibutyltin	mg/L	< 0.01			0.01	Pass	
Dibutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Monobutyltin	mg/L	< 0.0075			0.0075	Pass	
Monobutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	
Cyanide (total)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Heavy Metals							

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	99			70-130	Pass	
TRH C6-C10	%	85			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Xylenes - Total*	%	89			70-130	Pass	
LCS - % Recovery							
Dissolved Gases							
Methane	%	73			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	94			70-130	Pass	
1.2-Dichlorobenzene	%	98			70-130	Pass	
1.2-Dichloroethane	%	107			70-130	Pass	
Trichloroethene	%	120			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	94			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	102			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	106			70-130	Pass	
4.4'-DDD	%	121			70-130	Pass	
4.4'-DDE	%	114			70-130	Pass	
4.4'-DDT	%	130			70-130	Pass	
a-HCH	%	103			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-HCH	%	128			70-130	Pass	
d-HCH	%	124			70-130	Pass	
Dieldrin	%	102			70-130	Pass	
Endosulfan I	%	127			70-130	Pass	
Endosulfan II	%	113			70-130	Pass	
Endosulfan sulphate	%	112			70-130	Pass	
Endrin	%	92			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	122			70-130	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-HCH (Lindane)	%	92			70-130	Pass	
Heptachlor	%	105			70-130	Pass	
Heptachlor epoxide	%	96			70-130	Pass	
Hexachlorobenzene	%	104			70-130	Pass	
Methoxychlor	%	124			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	92			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	93			25-140	Pass	
2.4-Dichlorophenol	%	103			25-140	Pass	
2.4.5-Trichlorophenol	%	101			25-140	Pass	
2.4.6-Trichlorophenol	%	90			25-140	Pass	
2.6-Dichlorophenol	%	83			25-140	Pass	
4-Chloro-3-methylphenol	%	97			25-140	Pass	
Pentachlorophenol	%	54			25-140	Pass	
Tetrachlorophenols - Total	%	90			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	62			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	80			25-140	Pass	
2-Nitrophenol	%	78			25-140	Pass	
2.4-Dimethylphenol	%	34			25-140	Pass	
2.4-Dinitrophenol	%	73			25-140	Pass	
2-Methylphenol (o-Cresol)	%	84			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	81			25-140	Pass	
4-Nitrophenol	%	42			25-140	Pass	
Dinoseb	%	97			25-140	Pass	
Phenol	%	54			25-140	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	109			60-140	Pass	
Dibutyltin as Sn	%	95			60-140	Pass	
Monobutyltin as Sn	%	80			60-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	86			70-130	Pass	
Cyanide (total)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	102			80-120	Pass	
Cadmium (filtered)	%	103			80-120	Pass	
Chromium (filtered)	%	105			80-120	Pass	
Copper (filtered)	%	103			80-120	Pass	
Lead (filtered)	%	101			80-120	Pass	
Mercury (filtered)	%	99			80-120	Pass	
Molybdenum (filtered)	%	105			80-120	Pass	
Nickel (filtered)	%	108			80-120	Pass	
Selenium (filtered)	%	99			80-120	Pass	
Zinc (filtered)	%	106			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	100			50-150	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanoic acid (PFHxA)	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	89			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	68			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	89			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	93			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	88			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	81			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	87			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M24-Jn0033405	NCP	%	74			70-130	Pass	
TRH C10-C14	M24-Jn0045462	NCP	%	85			70-130	Pass	
TRH C6-C10	M24-Jn0033405	NCP	%	73			70-130	Pass	
TRH >C10-C16	M24-Jn0045462	NCP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M24-Jn0033405	NCP	%	89			70-130	Pass	
Toluene	M24-Jn0033405	NCP	%	83			70-130	Pass	
Ethylbenzene	M24-Jn0033405	NCP	%	77			70-130	Pass	
m&p-Xylenes	M24-Jn0033405	NCP	%	77			70-130	Pass	
o-Xylene	M24-Jn0033405	NCP	%	78			70-130	Pass	
Xylenes - Total*	M24-Jn0033405	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Dissolved Gases				Result 1					
Methane	L24-Jn0026932	NCP	%	86			70-130	Pass	
Spike - % Recovery									

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Volatile Organics				Result 1					
1.1-Dichloroethene	M24-Jn0033405	NCP	%	98			70-130	Pass	
1.2-Dichlorobenzene	M24-Jn0033405	NCP	%	78			70-130	Pass	
1.2-Dichloroethane	M24-Jn0033405	NCP	%	91			70-130	Pass	
Trichloroethene	M24-Jn0033405	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M24-Jn0033405	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0040016	NCP	%	96			70-130	Pass	
Acenaphthylene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Anthracene	M24-Jn0040016	NCP	%	88			70-130	Pass	
Benz(a)anthracene	M24-Jn0040016	NCP	%	79			70-130	Pass	
Benzo(a)pyrene	M24-Jn0040016	NCP	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0040016	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0040016	NCP	%	72			70-130	Pass	
Chrysene	M24-Jn0040016	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Fluoranthene	M24-Jn0040016	NCP	%	91			70-130	Pass	
Fluorene	M24-Jn0040016	NCP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0040016	NCP	%	87			70-130	Pass	
Naphthalene	M24-Jn0040016	NCP	%	94			70-130	Pass	
Phenanthrene	M24-Jn0040016	NCP	%	93			70-130	Pass	
Pyrene	M24-Jn0040016	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0040016	NCP	%	100			70-130	Pass	
4.4'-DDD	M24-Jn0040016	NCP	%	123			70-130	Pass	
4.4'-DDE	M24-Jn0040016	NCP	%	122			70-130	Pass	
4.4'-DDT	M24-Jn0040016	NCP	%	121			70-130	Pass	
a-HCH	M24-Jn0040016	NCP	%	120			70-130	Pass	
Aldrin	M24-Jn0040016	NCP	%	80			70-130	Pass	
b-HCH	M24-Jn0040016	NCP	%	114			70-130	Pass	
d-HCH	M24-Jn0040016	NCP	%	128			70-130	Pass	
Dieldrin	M24-Jn0040016	NCP	%	109			70-130	Pass	
Endosulfan I	M24-Jn0040016	NCP	%	117			70-130	Pass	
Endosulfan II	M24-Jn0040016	NCP	%	125			70-130	Pass	
Endosulfan sulphate	M24-Jn0040016	NCP	%	114			70-130	Pass	
Endrin	M24-Jn0040016	NCP	%	120			70-130	Pass	
Endrin aldehyde	M24-Jn0040016	NCP	%	127			70-130	Pass	
Endrin ketone	M24-Jn0040016	NCP	%	121			70-130	Pass	
g-HCH (Lindane)	M24-Jn0040016	NCP	%	110			70-130	Pass	
Heptachlor	M24-Jn0040016	NCP	%	108			70-130	Pass	
Heptachlor epoxide	M24-Jn0040016	NCP	%	90			70-130	Pass	
Hexachlorobenzene	M24-Jn0040016	NCP	%	109			70-130	Pass	
Methoxychlor	M24-Jn0040016	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0040016	NCP	%	101			70-130	Pass	
Aroclor-1260	M24-Jn0040016	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Chlorophenol	M24-Jn0040016	NCP	%	92			30-130	Pass	
2.4-Dichlorophenol	M24-Jn0040016	NCP	%	110			30-130	Pass	
2.4.5-Trichlorophenol	M24-Jn0040016	NCP	%	121			30-130	Pass	
2.4.6-Trichlorophenol	M24-Jn0040016	NCP	%	109			30-130	Pass	
2.6-Dichlorophenol	M24-Jn0040016	NCP	%	91			30-130	Pass	
4-Chloro-3-methylphenol	M24-Jn0040016	NCP	%	98			30-130	Pass	
Pentachlorophenol	M24-Jn0040016	NCP	%	43			30-130	Pass	
Tetrachlorophenols - Total	M24-Jn0040016	NCP	%	50			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0040016	NCP	%	105			30-130	Pass	
2-Nitrophenol	M24-Jn0040016	NCP	%	114			30-130	Pass	
2.4-Dimethylphenol	M24-Jn0040016	NCP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0040016	NCP	%	115			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0040016	NCP	%	102			30-130	Pass	
4-Nitrophenol	M24-Jn0040016	NCP	%	39			30-130	Pass	
Dinoseb	M24-Jn0040016	NCP	%	106			30-130	Pass	
Phenol	M24-Jn0040016	NCP	%	96			30-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M24-Jn0035070	NCP	%	104			70-130	Pass	
Cyanide (total)	L24-Jn0033249	NCP	%	75			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	M24-Jn0041863	NCP	%	105			75-125	Pass	
Cadmium (filtered)	M24-Jn0041863	NCP	%	107			75-125	Pass	
Chromium (filtered)	M24-Jn0041863	NCP	%	106			75-125	Pass	
Copper (filtered)	M24-Jn0041863	NCP	%	105			75-125	Pass	
Lead (filtered)	M24-Jn0041863	NCP	%	102			75-125	Pass	
Mercury (filtered)	M24-Jn0041863	NCP	%	98			75-125	Pass	
Molybdenum (filtered)	M24-Jn0041863	NCP	%	89			75-125	Pass	
Nickel (filtered)	M24-Jn0041863	NCP	%	103			75-125	Pass	
Selenium (filtered)	M24-Jn0041863	NCP	%	101			75-125	Pass	
Zinc (filtered)	M24-Jn0041863	NCP	%	108			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M24-Jn0045085	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0045085	NCP	%	89			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0039198	NCP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0039198	NCP	%	92			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0039198	NCP	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0039198	NCP	%	90			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0039198	NCP	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0039198	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0039198	NCP	%	78			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0039198	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0039198	NCP	%	95			50-150	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0039198	NCP	%	89			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0039198	NCP	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0039198	NCP	%	91			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0039198	NCP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0039198	NCP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0039198	NCP	%	95			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0039198	NCP	%	86			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0039198	NCP	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0039198	NCP	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0039198	NCP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0039198	NCP	%	72			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0039198	NCP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0039198	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0039198	NCP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0039198	NCP	%	94			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-Jn0047069	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C15-C28	M24-Jn0044518	NCP	mg/L	0.8	0.6	22	30%	Pass	
TRH C29-C36	M24-Jn0044518	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C6-C10	M24-Jn0047069	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M24-Jn0044518	NCP	mg/L	0.97	0.79	21	30%	Pass	
TRH >C16-C34	M24-Jn0044518	NCP	mg/L	0.2	< 0.1	59	30%	Fail	Q15
TRH >C34-C40	M24-Jn0044518	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-Jn0047069	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	

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Duplicate									
BTEX				Result 1	Result 2	RPD			
o-Xylene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-Jn0047069	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Dissolved Gases				Result 1	Result 2	RPD			
Methane	M24-Jn0033407	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Iodomethane	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methylene Chloride	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Styrene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	M24-Jn0047069	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	M24-Jn0047069	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-Jn0047069	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-Jn0052395	NCP	mg/L	0.002	0.002	22	30%	Pass	
Acenaphthylene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M24-Jn0052395	NCP	mg/L	0.005	0.005	19	30%	Pass	
Phenanthrene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M24-Jn0052395	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Jn0052395	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M24-Jn0052395	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1248	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	M24-Jn0052395	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

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Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dichlorophenol	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4.5-Trichlorophenol	M24-Jn0052395	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4.6-Trichlorophenol	M24-Jn0052395	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.6-Dichlorophenol	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-Jn0052395	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Pentachlorophenol	M24-Jn0052395	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Tetrachlorophenols - Total	M24-Jn0052395	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0052395	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M24-Jn0052395	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Nitrophenol	M24-Jn0052395	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4-Dimethylphenol	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dinitrophenol	M24-Jn0052395	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0052395	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
4-Nitrophenol	M24-Jn0052395	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Dinoseb	M24-Jn0052395	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Phenol	M24-Jn0052395	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Tributyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tributyltin Oxide	S24-Jn0010679	NCP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Dibutyltin	S24-Jn0010679	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Dibutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Monobutyltin	S24-Jn0010679	NCP	mg/L	< 0.0075	< 0.0075	<1	30%	Pass	
Monobutyltin as Sn	S24-Jn0010679	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M24-Jn0036256	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cyanide (total)	L24-Jn0033250	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	M24-Jn0041863	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	M24-Jn0041863	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Molybdenum (filtered)	M24-Jn0041863	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nickel (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Selenium (filtered)	M24-Jn0041863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	M24-Jn0041863	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0040021	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0040021	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorodecanoic acid (PFDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0045086	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-PFAS
Carroll Lee	Senior Analyst-Volatile
Harry Bacalis	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
109 Hutt St Adelaide, SA 5000
T: + 61 8 8431 7113 · F: + 61 8 8431 7115
ACN 100 226 475 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch2_140624	SAMPLERS: AB / JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia
RELINQUISHED BY:		RECEIVED BY
NAME : Jack Ayers	DATE: 14/06/24	NAME : DATE:
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30pm	OF: TIME:
NAME:	DATE:	NAME : DATE:
OF:	TIME:	OF: TIME:

P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	METHOD OF SHIPMENT: Overnight
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au abowne@jbsg.com.au	CONSIGNMENT NOTE NO. TRANSPORT CO. NAME.

SAMPLE DATA						CONTAINER DATA			ANALYSIS REQUIRED															
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	PFAS (30)	B10A (TRH/BTEX, PAH, OCPs, PCBs, HM6)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane	B6 (TRH/BTEX/M6)	B7 (TRH/BTEX/PAH/M8)					'NOTES
CGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							Please send SPLIT01 and SPLIT02 to Envirolab for
CGW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							analysis with a copy of this COC
CGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
FGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
FGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW05	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW06	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
MW07	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X							
DUP01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X					
DUP02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X															
SPLIT01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X					Please send to Envirolab for analysis
SPLIT02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X															Please send to Envirolab for analysis
RB02	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS	5		X									X						
TB02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X															
							TOTAL		17	11	11	11	11	11	13	11	11	1	2	0	0	0	0	0

Catherine
EF
17/6 9.36am

1108479

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 106 226 479 · ABN 62 106 226 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:	
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch2_140624	SAMPLERS: AB / JA	
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115	
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES	
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia	
RELINQUISHED BY:		RECEIVED BY	METHOD OF SHIPMENT: Overnight
NAME : Jack Ayers	DATE: 14/06/24	NAME : DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30pm	OF: TIME:	
NAME:	DATE:	NAME : DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF: TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED	
FOR LAB USE ONLY COOLER SEAL Yes ..... No ..... Broken ..... Intact ..... COOLER TEMP: deg.C	Please forward results and invoice to: labresults@jbsg.com.au klough@jbsg.com.au jayers@jbsg.com.au abowne@jbsg.com.au		

SAMPLE DATA						CONTAINER DATA			PFAS (30)	B10A (TRH/BTEX, PAH, OCPs, PCBs, HMs)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane	B6 (TRH/BTEX/MBs)	B7 (TRH/BTEX/PAH/MBs)							NOTES
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																		
CGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									Please send SPLIT01 and SPLIT02 to Envirolab for
CGW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									analysis with a copy of this COC
CGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
FGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
FGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW05	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW06	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
MW07	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X									
DUP01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X							
DUP02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																	
SPLIT01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X							Please send to Envirolab for analysis
SPLIT02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																	Please send to Envirolab for analysis
RB02	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS	5		X									X								
TB02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																	
								TOTAL	17	11	11	11	11	11	13	11	11	1	2	0	0	0	0	0		

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PROJECT INFORMATION

Date Received: 14/6/24

Company: JBS&G

Contact person: Kate Lough

Contact Number: 0433 683 377

Contact E-mail: klough@jbsg.com.au

Project Name/site: Osborne EIS

Project Number: 67064

COC: Attached ☐
E-mailed ☑ → KL To email
Not received ☐

Soil + Water samples.

OFFICIAL

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: OSBORNE EIS
Project ID: 67064
Turnaround time: 5 Day
Date/Time received Jun 17, 2024 9:36 AM
Eurofins reference 1108479

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

CGW02 not received. RB02 & TB02 labelled as RB12 & TB14 respectively. Samples logged in as per the containers.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1108479-W**
Project name OSBORNE EIS
Project ID 67064
Received Date Jun 17, 2024

Client Sample ID			R16CGW01	R16CGW03	R16FGW01	R16FGW03
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M24-Jn0040013**	**M24-Jn0040014**	**M24-Jn0040015**	**M24-Jn0040016**
Date Sampled			**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 2	< 0.4	< 2
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	0.35	0.27
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	0.35	0.27
TRH C6-C10	0.02	mg/L	< 0.02	< 2	< 0.4	< 2
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 2	< 0.4	< 2
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	0.39	0.31
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	0.39	0.31
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	0.39	0.31
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Toluene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Ethylbenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.2	< 0.04	< 0.2
o-Xylene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.3	< 0.06	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106	101	94	105
Dissolved Gases						
Methane	0.05	mg/L	0.23	< 0.05	5.1	18
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1

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Client Sample ID			R16CGW01	R16CGW03	R16FGW01	R16FGW03
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040013	M24-Jn0040014	M24-Jn0040015	M24-Jn0040016
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.5	0.20	< 0.5
2-Propanone (Acetone)	0.005	mg/L	0.048	< 0.5	1.1	< 0.5
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Allyl chloride	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Benzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Bromobenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Bromochloromethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Bromoform	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Bromomethane	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Carbon disulfide	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Chlorobenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Chloroethane	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Chloroform	0.005	mg/L	< 0.005	< 0.1	< 0.02	< 0.1
Chloromethane	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Dibromomethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Ethylbenzene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Iodomethane	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.2	< 0.04	< 0.2
Methylene Chloride	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
o-Xylene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Styrene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Toluene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Trichloroethene	0.001	mg/L	< 0.001	< 0.1	< 0.02	< 0.1
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Vinyl chloride	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.3	< 0.06	< 0.3
Total MAH*	0.003	mg/L	< 0.003	< 0.2	< 0.04	< 0.2
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.5	< 0.1	< 0.5
4-Bromofluorobenzene (surr.)	1	%	106	101	94	105
Toluene-d8 (surr.)	1	%	111	105	78	108
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.1	< 0.02	< 0.1

eurofins | Environment Testing

Client Sample ID			R16CGW01	R16CGW03	R16FGW01	R16FGW03
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040013	M24-Jn0040014	M24-Jn0040015	M24-Jn0040016
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	93	70	67	93
p-Terphenyl-d14 (surr.)	1	%	126	97	76	95
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	100	84	65	80
Tetrachloro-m-xylene (surr.)	1	%	118	89	76	85

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Client Sample ID			R16CGW01	R16CGW03	R16FGW01	R16FGW03
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040013	M24-Jn0040014	M24-Jn0040015	M24-Jn0040016
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchlorendate (surr.)	1	%	100	84	65	80
Tetrachloro-m-xylene (surr.)	1	%	118	89	76	85
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	0.032	< 0.003
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Total cresols*	0.01	mg/L	< 0.01	< 0.01	0.03	< 0.01
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	0.073	< 0.003
Phenol-d6 (surr.)	1	%	Q09int	127	Q09int	77
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	0.1	< 0.1
Organotins						
Tributyltin	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Tributyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tributyltin Oxide	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Dibutyltin	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Monobutyltin	0.0075	mg/L	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Monobutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tripropyltin as Sn (surr.)	1	%	83	73	INT	INT
Chromium (hexavalent)	0.005	mg/L	< 0.05	< 0.1	< 0.05	< 0.1
Cyanide (total)	0.005	mg/L	< 0.05	< 0.05	< 0.05	0.59

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Client Sample ID			[R16]CGW01	[R16]CGW03	[R16]FGW01	[R16]FGW03
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040013	M24-Jn0040014	M24-Jn0040015	M24-Jn0040016
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.27	0.15	0.019	0.25
Cadmium (filtered)	0.0002	mg/L	< 0.001	< 0.001	< 0.001	< 0.01
Chromium (filtered)	0.001	mg/L	0.013	0.010	< 0.01	0.16
Copper (filtered)	0.001	mg/L	0.028	0.026	< 0.01	< 0.1
Lead (filtered)	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.1
Mercury (filtered)	0.0001	mg/L	< 0.0005	< 0.0005	< 0.001	< 0.005
Molybdenum (filtered)	0.005	mg/L	0.33	0.13	< 0.05	< 0.5
Nickel (filtered)	0.001	mg/L	0.027	0.037	0.13	0.38
Selenium (filtered)	0.001	mg/L	0.098	< 0.01	0.021	< 0.1
Zinc (filtered)	0.005	mg/L	< 0.01	< 0.01	< 0.01	< 0.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	[N09]0.01	[N09]0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.03	0.02	0.03	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	124	124	121	109
13C5-PFPeA (surr.)	1	%	142	143	133	114
13C5-PFHxA (surr.)	1	%	139	140	130	29
13C4-PFHpA (surr.)	1	%	95	96	27	41
13C8-PFOA (surr.)	1	%	108	112	76	70
13C5-PFNA (surr.)	1	%	104	100	71	57
13C6-PFDA (surr.)	1	%	94	95	78	57
13C2-PFUnDA (surr.)	1	%	86	86	85	51
13C2-PFDoDA (surr.)	1	%	63	64	80	34
13C2-PFTeDA (surr.)	1	%	44	45	95	18
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	98	87	92	47
D3-N-MeFOSA (surr.)	1	%	106	37	107	66
D5-N-EtFOSA (surr.)	1	%	118	36	103	61
D7-N-MeFOSE (surr.)	1	%	91	58	110	54
D9-N-EtFOSE (surr.)	1	%	92	57	117	52

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Client Sample ID			R16CGW01	R16CGW03	R16FGW01	R16FGW03
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040013	M24-Jn0040014	M24-Jn0040015	M24-Jn0040016
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSAA (surr.)	1	%	95	114	160	91
D3-N-MeFOSAA (surr.)	1	%	92	105	154	77
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)N11	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)N15	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)N15	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)N15	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)N11	0.01	ug/L	N090.03	N090.01	N090.10	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)N15	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)N11	0.01	ug/L	N090.01	< 0.01	N090.04	N090.02
Perfluorodecanesulfonic acid (PFDS)N15	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	79	88	64	65
18O2-PFHxS (surr.)	1	%	87	86	67	68
13C8-PFOS (surr.)	1	%	91	90	74	65
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)N11	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)N11	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)N11	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)N11	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	40	60	47	35
13C2-6:2 FTSA (surr.)	1	%	58	90	151	109
13C2-8:2 FTSA (surr.)	1	%	80	93	160	99
13C2-10:2 FTSA (surr.)	1	%	76	97	111	72
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.04	0.01	0.14	0.02
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.04	0.02	0.07	0.02
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.07	0.03	0.17	0.02
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.08	< 0.05	0.17	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.1	< 0.1	0.17	< 0.1

Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 2	< 2	< 0.02	< 2
TRH C10-C14	0.05	mg/L	0.21	0.26	0.20	1.4
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.5
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.21	0.26	0.2	1.9
TRH C6-C10	0.02	mg/L	< 2	< 2	< 0.02	< 2
TRH C6-C10 less BTEX (F1)N04	0.02	mg/L	< 2	< 2	< 0.02	< 2
TRH >C10-C16	0.05	mg/L	0.27	0.29	0.25	1.6

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Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	0.27	0.29	0.25	1.6
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.27	0.29	0.25	1.7
BTEX						
Benzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Toluene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Ethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
m&p-Xylenes	0.002	mg/L	< 0.2	< 0.2	< 0.002	< 0.2
o-Xylene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Xylenes - Total*	0.003	mg/L	< 0.3	< 0.3	< 0.003	< 0.3
4-Bromofluorobenzene (surr.)	1	%	118	104	102	138
Dissolved Gases						
Methane	0.05	mg/L	1.8	15	6.3	14
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.1-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.1.1-Trichloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.1.2-Trichloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2-Dibromoethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2-Dichloroethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2-Dichloropropane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2.3-Trichloropropane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.3-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.3-Dichloropropane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
1.4-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
2-Butanone (MEK)	0.005	mg/L	< 0.5	< 0.5	0.034	< 0.5
2-Propanone (Acetone)	0.005	mg/L	< 0.5	< 0.5	0.25	2.6
4-Chlorotoluene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Allyl chloride	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Benzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Bromobenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Bromochloromethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Bromodichloromethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Bromoform	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Bromomethane	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Carbon disulfide	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Carbon Tetrachloride	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Chlorobenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Chloroethane	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Chloroform	0.005	mg/L	< 0.1	< 0.1	< 0.005	< 0.1
Chloromethane	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
cis-1.2-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1

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Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
cis-1.3-Dichloropropene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Dibromochloromethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Dibromomethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Dichlorodifluoromethane	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Ethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Iodomethane	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
m&p-Xylenes	0.002	mg/L	< 0.2	< 0.2	< 0.002	< 0.2
Methylene Chloride	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
o-Xylene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Styrene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Tetrachloroethene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Toluene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
trans-1.2-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
trans-1.3-Dichloropropene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Trichloroethene	0.001	mg/L	< 0.1	< 0.1	< 0.001	< 0.1
Trichlorofluoromethane	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Vinyl chloride	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Xylenes - Total*	0.003	mg/L	< 0.3	< 0.3	< 0.003	< 0.3
Total MAH*	0.003	mg/L	< 0.2	< 0.2	< 0.003	< 0.2
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.5	< 0.5	< 0.005	< 0.5
4-Bromofluorobenzene (surr.)	1	%	118	104	102	138
Toluene-d8 (surr.)	1	%	116	103	110	139
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.1	< 0.1	< 0.01	< 0.1
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	69	65	74	56
p-Terphenyl-d14 (surr.)	1	%	84	76	82	68

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Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	83	137	84	72
Tetrachloro-m-xylene (surr.)	1	%	76	133	78	59
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchlorendate (surr.)	1	%	83	137	84	72
Tetrachloro-m-xylene (surr.)	1	%	76	133	78	59
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01

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Client Sample ID			[R16]MW01	[R16]MW02	MW03	[R16]MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	0.016	0.018	< 0.003	0.057
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Total cresols*	0.01	mg/L	0.02	0.02	< 0.01	0.06
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	0.20	0.24	0.008	0.61
Phenol-d6 (surr.)	1	%	95	95	72	94
Total Non-Halogenated Phenol*	0.1	mg/L	0.2	0.3	< 0.1	0.7
Organotins						
Tributyltin	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Tributyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tributyltin Oxide	0.0125	mg/L	< 0.0125	< 0.0125	< 0.0125	< 0.0125
Dibutyltin	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Monobutyltin	0.0075	mg/L	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Monobutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Tripropyltin as Sn (surr.)	1	%	INT	INT	INT	76
Chromium (hexavalent)	0.005	mg/L	< 0.1	< 0.1	< 0.05	< 0.05
Cyanide (total)	0.005	mg/L	< 0.05	< 0.05	0.067	< 0.05
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.023	< 0.1	0.012	0.031
Cadmium (filtered)	0.0002	mg/L	< 0.001	< 0.01	< 0.0002	< 0.001
Chromium (filtered)	0.001	mg/L	< 0.01	< 0.1	< 0.001	< 0.01
Copper (filtered)	0.001	mg/L	< 0.01	< 0.1	< 0.001	< 0.01
Lead (filtered)	0.001	mg/L	< 0.01	< 0.1	< 0.001	< 0.01
Mercury (filtered)	0.0001	mg/L	< 0.0005	< 0.005	0.0001	0.0025
Molybdenum (filtered)	0.005	mg/L	< 0.05	< 0.5	< 0.005	0.077
Nickel (filtered)	0.001	mg/L	0.007	0.17	0.024	0.18
Selenium (filtered)	0.001	mg/L	< 0.01	< 0.1	0.11	0.036
Zinc (filtered)	0.005	mg/L	< 0.01	< 0.2	< 0.005	< 0.02
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.02	[N09]0.03	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	[N09]0.02	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	0.02	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

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Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFBA (surr.)	1	%	33	125	18	122
13C5-PFPeA (surr.)	1	%	75	132	62	132
13C5-PFHxA (surr.)	1	%	75	123	74	41
13C4-PFHpA (surr.)	1	%	87	135	84	18
13C8-PFOA (surr.)	1	%	110	78	115	69
13C5-PFNA (surr.)	1	%	96	74	87	65
13C6-PFDA (surr.)	1	%	82	80	90	84
13C2-PFUnDA (surr.)	1	%	70	87	80	88
13C2-PFDoDA (surr.)	1	%	60	85	61	84
13C2-PFTeDA (surr.)	1	%	34	107	39	92
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	81	68	95	87
D3-N-MeFOSA (surr.)	1	%	83	67	72	130
D5-N-EtFOSA (surr.)	1	%	77	75	75	126
D7-N-MeFOSE (surr.)	1	%	71	68	63	107
D9-N-EtFOSE (surr.)	1	%	71	79	64	102
D5-N-EtFOSAA (surr.)	1	%	88	176	113	193
D3-N-MeFOSAA (surr.)	1	%	76	141	122	153
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	0.01	0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	0.12	[N09]0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.17	[N09]0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	87	36	90	56
18O2-PFHxS (surr.)	1	%	87	68	87	65
13C8-PFOS (surr.)	1	%	86	80	87	73
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	87	23	107	70

eurofins | Environment Testing

Client Sample ID			R16MW01	R16MW02	MW03	R16MW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040017	M24-Jn0040018	M24-Jn0040019	M24-Jn0040020
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-6:2 FTSA (surr.)	1	%	105	144	141	156
13C2-8:2 FTSA (surr.)	1	%	84	139	105	173
13C2-10:2 FTSA (surr.)	1	%	65	112	96	140
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.29	0.02	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.17	0.03	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.29	0.04	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.31	0.09	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.31	< 0.1	< 0.1	< 0.1

Client Sample ID			R16MW06	R16MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 2	< 2	0.06	-
TRH C10-C14	0.05	mg/L	0.21	0.81	0.22	-
TRH C15-C28	0.1	mg/L	< 0.1	0.7	0.5	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	0.21	1.51	0.72	-
TRH C6-C10	0.02	mg/L	< 2	< 2	0.07	-
TRH C6-C10 less BTEX (F1)N04	0.02	mg/L	< 2	< 2	0.07	-
TRH >C10-C16	0.05	mg/L	0.33	1.0	0.25	-
TRH >C10-C16 less Naphthalene (F2)N01	0.05	mg/L	0.33	1	0.25	-
TRH >C16-C34	0.1	mg/L	< 0.1	0.3	0.4	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	0.33	1.3	0.65	-
BTEX						
Benzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	-
Toluene	0.001	mg/L	< 0.1	< 0.1	0.001	-
Ethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.2	< 0.2	< 0.002	-
o-Xylene	0.001	mg/L	< 0.1	< 0.1	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.3	< 0.3	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	103	112	141	-
Dissolved Gases						
Methane	0.05	mg/L	1.5	13	-	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	-	-

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Client Sample ID			R16MW06	R16MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichloroethane	0.001	mg/L	< 0.1	< 0.1	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.1	< 0.1	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.1	< 0.1	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.1	< 0.1	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.1	< 0.1	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.1	< 0.1	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.1	< 0.1	-	-
2-Butanone (MEK)	0.005	mg/L	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.005	mg/L	2.2	2.0	-	-
4-Chlorotoluene	0.001	mg/L	< 0.1	< 0.1	-	-
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.5	< 0.5	-	-
Allyl chloride	0.001	mg/L	< 0.1	< 0.1	-	-
Benzene	0.001	mg/L	< 0.1	< 0.1	-	-
Bromobenzene	0.001	mg/L	< 0.1	< 0.1	-	-
Bromochloromethane	0.001	mg/L	< 0.1	< 0.1	-	-
Bromodichloromethane	0.001	mg/L	< 0.1	< 0.1	-	-
Bromoform	0.001	mg/L	< 0.1	< 0.1	-	-
Bromomethane	0.005	mg/L	< 0.5	< 0.5	-	-
Carbon disulfide	0.001	mg/L	< 0.1	< 0.1	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.1	< 0.1	-	-
Chlorobenzene	0.001	mg/L	< 0.1	< 0.1	-	-
Chloroethane	0.005	mg/L	< 0.5	< 0.5	-	-
Chloroform	0.005	mg/L	< 0.1	< 0.1	-	-
Chloromethane	0.005	mg/L	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.1	< 0.1	-	-
Dibromochloromethane	0.001	mg/L	< 0.1	< 0.1	-	-
Dibromomethane	0.001	mg/L	< 0.1	< 0.1	-	-
Dichlorodifluoromethane	0.005	mg/L	< 0.5	< 0.5	-	-
Ethylbenzene	0.001	mg/L	< 0.1	< 0.1	-	-
Iodomethane	0.001	mg/L	< 0.1	< 0.1	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.1	< 0.1	-	-
m&p-Xylenes	0.002	mg/L	< 0.2	< 0.2	-	-
Methylene Chloride	0.005	mg/L	< 0.5	< 0.5	-	-
o-Xylene	0.001	mg/L	< 0.1	< 0.1	-	-
Styrene	0.001	mg/L	< 0.1	< 0.1	-	-
Tetrachloroethene	0.001	mg/L	< 0.1	< 0.1	-	-
Toluene	0.001	mg/L	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.1	< 0.1	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.1	< 0.1	-	-
Trichloroethene	0.001	mg/L	< 0.1	< 0.1	-	-
Trichlorofluoromethane	0.005	mg/L	< 0.5	< 0.5	-	-
Vinyl chloride	0.005	mg/L	< 0.5	< 0.5	-	-
Xylenes - Total*	0.003	mg/L	< 0.3	< 0.3	-	-
Total MAH*	0.003	mg/L	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	103	112	-	-
Toluene-d8 (surr.)	1	%	107	114	-	-

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Client Sample ID			R16MW06	R16MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.1	< 0.1	< 0.01	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Total PAH*	0.001	mg/L	< 0.001	0.001	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	72	73	91	-
p-Terphenyl-d14 (surr.)	1	%	87	86	123	-
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	-	-
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	-	-
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	-	-
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	-	-
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	-	-
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Toxaphene	0.005	mg/L	< 0.005	< 0.005	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	-	-
Dibutylchlorendate (surr.)	1	%	81	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	73	78	-	-

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Client Sample ID			R16MW06	R16MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	-	-
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	-	-
Total PCB*	0.005	mg/L	< 0.005	< 0.005	-	-
Dibutylchlorendate (surr.)	1	%	81	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	73	78	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	-	-
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	-	-
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	-	-
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-
2-Methylphenol (o-Cresol)	0.003	mg/L	0.005	0.17	-	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	-	-
Total cresols*	0.01	mg/L	< 0.01	0.17	-	-
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-
Dinoseb	0.1	mg/L	< 0.1	< 0.1	-	-
Phenol	0.003	mg/L	0.032	0.12	-	-
Phenol-d6 (surr.)	1	%	64	77	-	-
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	0.3	-	-
Organotins						
Tributyltin	0.0125	mg/L	< 0.0125	< 0.0125	-	-
Tributyltin as Sn	0.005	mg/L	< 0.005	< 0.005	-	-
Tributyltin Oxide	0.0125	mg/L	< 0.0125	< 0.0125	-	-
Dibutyltin	0.01	mg/L	< 0.01	< 0.01	-	-
Dibutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	-	-
Monobutyltin	0.0075	mg/L	< 0.0075	< 0.0075	-	-
Monobutyltin as Sn	0.005	mg/L	< 0.005	< 0.005	-	-
Tripropyltin as Sn (surr.)	1	%	79	83	-	-
Chromium (hexavalent)	0.005	mg/L	< 0.1	< 0.05	-	-
Cyanide (total)	0.005	mg/L	0.057	< 0.05	< 0.05	-

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Client Sample ID			[R16]MW06	[R16]MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.24	0.089	0.089	-
Cadmium (filtered)	0.0002	mg/L	< 0.01	< 0.001	< 0.001	-
Chromium (filtered)	0.001	mg/L	< 0.1	< 0.01	0.010	-
Copper (filtered)	0.001	mg/L	< 0.1	< 0.01	< 0.01	-
Lead (filtered)	0.001	mg/L	< 0.1	< 0.01	< 0.01	-
Mercury (filtered)	0.0001	mg/L	< 0.01	< 0.0005	< 0.001	-
Molybdenum (filtered)	0.005	mg/L	0.68	0.22	-	-
Nickel (filtered)	0.001	mg/L	0.56	0.28	0.29	-
Selenium (filtered)	0.001	mg/L	< 0.1	0.10	-	-
Zinc (filtered)	0.005	mg/L	< 0.2	< 0.02	< 0.01	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	[N09]0.02
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	[N09]0.02
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.03	< 0.01	< 0.01	0.03
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	115	119	115	113
13C5-PFPeA (surr.)	1	%	118	123	120	112
13C5-PFHxA (surr.)	1	%	114	42	42	109
13C4-PFHpA (surr.)	1	%	90	115	31	91
13C8-PFOA (surr.)	1	%	61	75	76	60
13C5-PFNA (surr.)	1	%	58	69	68	57
13C6-PFDA (surr.)	1	%	76	87	85	72
13C2-PFUnDA (surr.)	1	%	74	87	89	68
13C2-PFDoDA (surr.)	1	%	63	72	73	60
13C2-PFTeDA (surr.)	1	%	109	97	96	122
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	57	86	90	52
D3-N-MeFOSA (surr.)	1	%	131	87	136	86
D5-N-EtFOSA (surr.)	1	%	122	85	194	87
D7-N-MeFOSE (surr.)	1	%	73	105	130	63
D9-N-EtFOSE (surr.)	1	%	69	98	114	62

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Client Sample ID			[R16]MW06	[R16]MW07	DUP01	DUP02
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M24-Jn0040021	M24-Jn0040022	M24-Jn0040023	M24-Jn0040024
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSAA (surr.)	1	%	142	190	198	145
D3-N-MeFOSAA (surr.)	1	%	141	141	111	68
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	0.02	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.03	< 0.01	< 0.01	0.03
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.03	< 0.01	< 0.01	[N09]0.03
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	53	64	65	45
18O2-PFHxS (surr.)	1	%	57	65	65	60
13C8-PFOS (surr.)	1	%	71	70	71	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	29	67	69	29
13C2-6:2 FTSA (surr.)	1	%	106	143	148	97
13C2-8:2 FTSA (surr.)	1	%	112	179	183	129
13C2-10:2 FTSA (surr.)	1	%	149	147	152	133
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	< 0.01	< 0.01	0.06
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.06	< 0.01	< 0.01	0.06
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.09	< 0.01	< 0.01	0.09
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.13	< 0.05	< 0.05	0.13
Sum of PFASs (n=30)*	0.1	ug/L	0.13	< 0.1	< 0.1	0.13

Client Sample ID			RB12	TB14
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0040025	M24-Jn0040026
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-

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Client Sample ID			RB12	TB14
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0040025	M24-Jn0040026
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	106	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	121	112
13C5-PFPeA (surr.)	1	%	127	125
13C5-PFHxA (surr.)	1	%	106	103
13C4-PFHpA (surr.)	1	%	102	100
13C8-PFOA (surr.)	1	%	118	114
13C5-PFNA (surr.)	1	%	112	109
13C6-PFDA (surr.)	1	%	96	94
13C2-PFUnDA (surr.)	1	%	86	83
13C2-PFDoDA (surr.)	1	%	66	64
13C2-PFTeDA (surr.)	1	%	61	54

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Client Sample ID			RB12	TB14
Sample Matrix			Water	Water
Eurofins Sample No.			M24-Jn0040025	M24-Jn0040026
Date Sampled			Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	99	100
D3-N-MeFOSA (surr.)	1	%	63	82
D5-N-EtFOSA (surr.)	1	%	73	90
D7-N-MeFOSE (surr.)	1	%	86	85
D9-N-EtFOSE (surr.)	1	%	90	92
D5-N-EtFOSAA (surr.)	1	%	84	79
D3-N-MeFOSAA (surr.)	1	%	83	78
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	111	110
18O2-PFHxS (surr.)	1	%	52	59
13C8-PFOS (surr.)	1	%	99	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	76	77
13C2-6:2 FTSA (surr.)	1	%	62	60
13C2-8:2 FTSA (surr.)	1	%	80	73
13C2-10:2 FTSA (surr.)	1	%	75	63
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8 filtered			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8 filtered	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Dissolved Gases	Melbourne	Jun 19, 2024	14 Days
- Method: in-house method LTM-ORG-2070 by Headspace GC-FID			
Volatile Organics	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Organotins	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2400 Determination of organotins in solid & aqueous samples by LC-ICP-MS			
Chromium (hexavalent)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Jun 19, 2024	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Heavy Metals (filtered)	Melbourne	Jun 19, 2024	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Phenols (Speciated)			
Phenols (Halogenated)	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 19, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B6: BTEX/TRH/M8			
Metals M8	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 19, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 20, 2024	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 17, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1108479
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						Chromium (hexavalent)	Cyanide (total)	Methane	Molybdenum (filtered)	Selenium (filtered)	Phenols (Speciated)	Volatile Organics	Eurofins Suite B7 (filtered metals)	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	CGW01	Jun 14, 2024		Water	M24-Jn0040013	X	X	X	X	X	X	X			X	X	X
2	CGW03	Jun 14, 2024		Water	M24-Jn0040014	X	X	X	X	X	X	X			X	X	X
3	FGW01	Jun 14, 2024		Water	M24-Jn0040015	X	X	X	X	X	X	X			X	X	X
4	FGW03	Jun 14, 2024		Water	M24-Jn0040016	X	X	X	X	X	X	X			X	X	X
5	MW01	Jun 14, 2024		Water	M24-Jn0040017	X	X	X	X	X	X	X			X	X	X
6	MW02	Jun 14, 2024		Water	M24-Jn0040018	X	X	X	X	X	X	X			X	X	X
7	MW03	Jun 14, 2024		Water	M24-Jn0040019	X	X	X	X	X	X	X			X	X	X
8	MW05	Jun 14, 2024		Water	M24-Jn0040020	X	X	X	X	X	X	X			X	X	X
9	MW06	Jun 14, 2024		Water	M24-Jn0040021	X	X	X	X	X	X	X			X	X	X
10	MW07	Jun 14, 2024		Water	M24-Jn0040022	X	X	X	X	X	X	X			X	X	X
11	DUP01	Jun 14, 2024		Water	M24-Jn0040023		X						X		X		
12	DUP02	Jun 14, 2024		Water	M24-Jn0040024										X		
13	RB12	Jun 14, 2024		Water	M24-Jn0040025									X	X		
14	TB14	Jun 14, 2024		Water	M24-Jn0040026										X		

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Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1108479
Phone: 08 8431 7113
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Received: Jun 17, 2024 9:36 AM
Due: Jun 24, 2024
Priority: 5 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail	Chromium (hexavalent)	Cyanide (total)	Methane	Molybdenum (filtered)	Selenium (filtered)	Phenols (Speciated)	Volatile Organics	Eurofins Suite B7 (filtered metals)	Eurofins Suite B6: BTEX/TRH/M8	Per- and Polyfluoroalkyl Substances (PFASs)	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Organotins
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X	X	X	X	X	X	X	X	X
Test Counts	10	11	10	10	10	10	10	1	1	14	10	10

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Organotins							
Tributyltin	mg/L	< 0.0125			0.0125	Pass	
Tributyltin as Sn	mg/L	< 0.005			0.005	Pass	
Tributyltin Oxide	mg/L	< 0.0125			0.0125	Pass	
Dibutyltin	mg/L	< 0.01			0.01	Pass	
Dibutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Monobutyltin	mg/L	< 0.0075			0.0075	Pass	
Monobutyltin as Sn	mg/L	< 0.005			0.005	Pass	
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Dissolved Gases							
Methane	mg/L	< 0.05			0.05	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.005			0.005	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chromium (hexavalent)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	

eurofins | Environment Testing

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Organotins							
Tributyltin as Sn	%	84			60-140	Pass	
Dibutyltin as Sn	%	109			60-140	Pass	
Monobutyltin as Sn	%	83			60-140	Pass	
LCS - % Recovery							
Dissolved Gases							
Methane	%	107			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	112			70-130	Pass	
4.4'-DDD	%	103			70-130	Pass	
4.4'-DDE	%	92			70-130	Pass	
4.4'-DDT	%	105			70-130	Pass	
a-HCH	%	89			70-130	Pass	
Aldrin	%	117			70-130	Pass	
b-HCH	%	105			70-130	Pass	
d-HCH	%	103			70-130	Pass	
Dieldrin	%	127			70-130	Pass	
Endosulfan I	%	105			70-130	Pass	
Endosulfan II	%	96			70-130	Pass	
Endosulfan sulphate	%	90			70-130	Pass	
Endrin	%	107			70-130	Pass	
Endrin aldehyde	%	106			70-130	Pass	
Endrin ketone	%	96			70-130	Pass	

eurofins | Environment Testing

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-HCH (Lindane)	%	117			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	90			70-130	Pass	
Hexachlorobenzene	%	89			70-130	Pass	
Methoxychlor	%	98			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	116			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	119			70-130	Pass	
TRH C6-C10	%	122			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	96			70-130	Pass	
Toluene	%	113			70-130	Pass	
Ethylbenzene	%	108			70-130	Pass	
m&p-Xylenes	%	112			70-130	Pass	
Xylenes - Total*	%	113			70-130	Pass	
LCS - % Recovery							
Dissolved Gases							
Methane	%	91			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	119			70-130	Pass	
1.2-Dichlorobenzene	%	101			70-130	Pass	
1.2-Dichloroethane	%	103			70-130	Pass	
Trichloroethene	%	120			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	104			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	76			70-130	Pass	
Chrysene	%	102			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	93			25-140	Pass	
2.4-Dichlorophenol	%	103			25-140	Pass	
2.4.5-Trichlorophenol	%	101			25-140	Pass	

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Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4.6-Trichlorophenol	%	90			25-140	Pass	
2.6-Dichlorophenol	%	83			25-140	Pass	
4-Chloro-3-methylphenol	%	97			25-140	Pass	
Pentachlorophenol	%	54			25-140	Pass	
Tetrachlorophenols - Total	%	90			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	62			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	80			25-140	Pass	
2-Nitrophenol	%	78			25-140	Pass	
2.4-Dimethylphenol	%	34			25-140	Pass	
2.4-Dinitrophenol	%	73			25-140	Pass	
2-Methylphenol (o-Cresol)	%	84			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	81			25-140	Pass	
4-Nitrophenol	%	42			25-140	Pass	
Dinoseb	%	97			25-140	Pass	
Phenol	%	54			25-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	95			70-130	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	93			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	91			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	88			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	88			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	87			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	89			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	68			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	94			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	100			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	97			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	95			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	78			50-150	Pass	
LCS - % Recovery							

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Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	84			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	84			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Organotins				Result 1					
Tributyltin as Sn	M24-Jn0040013	CP	%	85			60-140	Pass	
Dibutyltin as Sn	M24-Jn0040013	CP	%	102			60-140	Pass	
Monobutyltin as Sn	M24-Jn0040013	CP	%	83			60-140	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluoroheptanoic acid (PFHpA)	M24-Jn0040015	CP	%	80			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-Jn0040015	CP	%	87			50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-Jn0040015	CP	%	88			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-Jn0040015	CP	%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-Jn0040015	CP	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-Jn0040015	CP	%	92			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-Jn0040015	CP	%	69			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-Jn0040015	CP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M24-Jn0040015	CP	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-Jn0040015	CP	%	92			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-Jn0040015	CP	%	85			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-Jn0040015	CP	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-Jn0040015	CP	%	90			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-Jn0040015	CP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-Jn0040015	CP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M24-Jn0040015	CP	%	135			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-Jn0040015	CP	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-Jn0040015	CP	%	65			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-Jn0040015	CP	%	59			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-Jn0040015	CP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-Jn0040015	CP	%	78			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-Jn0040015	CP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-Jn0040015	CP	%	82			50-150	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-Jn0040015	CP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-Jn0040015	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-Jn0040015	CP	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-Jn0040015	CP	%	82			50-150	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M24-Jn0040016	CP	%	96			70-130	Pass	
Acenaphthylene	M24-Jn0040016	CP	%	91			70-130	Pass	
Anthracene	M24-Jn0040016	CP	%	88			70-130	Pass	
Benz(a)anthracene	M24-Jn0040016	CP	%	79			70-130	Pass	
Benzo(a)pyrene	M24-Jn0040016	CP	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	M24-Jn0040016	CP	%	95			70-130	Pass	
Benzo(g.h.i)perylene	M24-Jn0040016	CP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M24-Jn0040016	CP	%	72			70-130	Pass	
Chrysene	M24-Jn0040016	CP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	M24-Jn0040016	CP	%	87			70-130	Pass	
Fluoranthene	M24-Jn0040016	CP	%	91			70-130	Pass	
Fluorene	M24-Jn0040016	CP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-Jn0040016	CP	%	87			70-130	Pass	
Naphthalene	M24-Jn0040016	CP	%	94			70-130	Pass	
Phenanthrene	M24-Jn0040016	CP	%	93			70-130	Pass	
Pyrene	M24-Jn0040016	CP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Jn0040016	CP	%	100			70-130	Pass	
4.4'-DDD	M24-Jn0040016	CP	%	123			70-130	Pass	
4.4'-DDE	M24-Jn0040016	CP	%	122			70-130	Pass	
4.4'-DDT	M24-Jn0040016	CP	%	121			70-130	Pass	
a-HCH	M24-Jn0040016	CP	%	120			70-130	Pass	
Aldrin	M24-Jn0040016	CP	%	80			70-130	Pass	
b-HCH	M24-Jn0040016	CP	%	114			70-130	Pass	
d-HCH	M24-Jn0040016	CP	%	128			70-130	Pass	
Dieldrin	M24-Jn0040016	CP	%	109			70-130	Pass	
Endosulfan I	M24-Jn0040016	CP	%	117			70-130	Pass	
Endosulfan II	M24-Jn0040016	CP	%	125			70-130	Pass	
Endosulfan sulphate	M24-Jn0040016	CP	%	114			70-130	Pass	
Endrin	M24-Jn0040016	CP	%	120			70-130	Pass	
Endrin aldehyde	M24-Jn0040016	CP	%	127			70-130	Pass	
Endrin ketone	M24-Jn0040016	CP	%	121			70-130	Pass	
g-HCH (Lindane)	M24-Jn0040016	CP	%	110			70-130	Pass	
Heptachlor	M24-Jn0040016	CP	%	108			70-130	Pass	
Heptachlor epoxide	M24-Jn0040016	CP	%	90			70-130	Pass	
Hexachlorobenzene	M24-Jn0040016	CP	%	109			70-130	Pass	
Methoxychlor	M24-Jn0040016	CP	%	107			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M24-Jn0040016	CP	%	101			70-130	Pass	

eurofins | Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	M24-Jn0040016	CP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M24-Jn0040016	CP	%	92			30-130	Pass	
2.4-Dichlorophenol	M24-Jn0040016	CP	%	110			30-130	Pass	
2.4.5-Trichlorophenol	M24-Jn0040016	CP	%	121			30-130	Pass	
2.4.6-Trichlorophenol	M24-Jn0040016	CP	%	109			30-130	Pass	
2.6-Dichlorophenol	M24-Jn0040016	CP	%	91			30-130	Pass	
4-Chloro-3-methylphenol	M24-Jn0040016	CP	%	98			30-130	Pass	
Pentachlorophenol	M24-Jn0040016	CP	%	43			30-130	Pass	
Tetrachlorophenols - Total	M24-Jn0040016	CP	%	50			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M24-Jn0040016	CP	%	105			30-130	Pass	
2-Nitrophenol	M24-Jn0040016	CP	%	114			30-130	Pass	
2.4-Dimethylphenol	M24-Jn0040016	CP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M24-Jn0040016	CP	%	115			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-Jn0040016	CP	%	102			30-130	Pass	
4-Nitrophenol	M24-Jn0040016	CP	%	39			30-130	Pass	
Dinoseb	M24-Jn0040016	CP	%	106			30-130	Pass	
Phenol	M24-Jn0040016	CP	%	96			30-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	M24-Jn0040013	CP	mg/L	0.27	0.27	1.1	30%	Pass	
Cadmium (filtered)	M24-Jn0040013	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chromium (filtered)	M24-Jn0040013	CP	mg/L	0.013	0.012	5.3	30%	Pass	
Copper (filtered)	M24-Jn0040013	CP	mg/L	0.028	0.028	<1	30%	Pass	
Lead (filtered)	M24-Jn0040013	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury (filtered)	M24-Jn0040013	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Molybdenum (filtered)	M24-Jn0040013	CP	mg/L	0.33	0.33	<1	30%	Pass	
Nickel (filtered)	M24-Jn0040013	CP	mg/L	0.027	0.030	7.2	30%	Pass	
Selenium (filtered)	M24-Jn0040013	CP	mg/L	0.098	0.085	14	30%	Pass	
Zinc (filtered)	M24-Jn0040013	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Dissolved Gases				Result 1	Result 2	RPD			
Methane	M24-Jn0040014	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-Jn0040015	CP	mg/L	0.35	0.39	11	30%	Pass	
TRH C15-C28	M24-Jn0040015	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M24-Jn0040015	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	M24-Jn0040015	CP	mg/L	0.39	0.41	4.8	30%	Pass	
TRH >C16-C34	M24-Jn0040015	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M24-Jn0040015	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M24-Jn0040018	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M24-Jn0040021	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-Jn0040021	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-Jn0040021	CP	ug/L	0.02	0.02	20	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-Jn0040021	CP	ug/L	0.02	0.02	2.6	30%	Pass	

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Duplicate									
Organotins				Result 1	Result 2	RPD			
Tributyltin	M24-Jn0040022	CP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Tributyltin as Sn	M24-Jn0040022	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tributyltin Oxide	M24-Jn0040022	CP	mg/L	< 0.0125	< 0.0125	<1	30%	Pass	
Dibutyltin	M24-Jn0040022	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Dibutyltin as Sn	M24-Jn0040022	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Monobutyltin	M24-Jn0040022	CP	mg/L	< 0.0075	< 0.0075	<1	30%	Pass	
Monobutyltin as Sn	M24-Jn0040022	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	M24-Jn0040022	CP	mg/L	0.089	0.090	<1	30%	Pass	
Cadmium (filtered)	M24-Jn0040022	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chromium (filtered)	M24-Jn0040022	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper (filtered)	M24-Jn0040022	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Lead (filtered)	M24-Jn0040022	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury (filtered)	M24-Jn0040022	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Molybdenum (filtered)	M24-Jn0040022	CP	mg/L	0.22	0.23	5.9	30%	Pass	
Nickel (filtered)	M24-Jn0040022	CP	mg/L	0.28	0.29	1.9	30%	Pass	
Selenium (filtered)	M24-Jn0040022	CP	mg/L	0.10	0.096	5.5	30%	Pass	
Zinc (filtered)	M24-Jn0040022	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised by:

Amy Meunier	Analytical Services Manager
Carroll Lee	Senior Analyst-PFAS
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mele Singh	Senior Analyst-Organic
Mele Singh	Senior Analyst-Volatile

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Jessica Sheppard

From: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Sent: Tuesday, 25 June 2024 1:01 PM
To: Kate Lough
Cc: #AU_CAU001_EnviroSampleVic; Harry Bacalis
Subject: RE: Additional testing - lab reports 1108479, 1107846 and 1108287

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: ADDITIONALS

Hi Kate,

We can get this organised and provide results by 4pm latest tomorrow.

Jess – Additional testing below 1 DAY TAT

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : Amy.Meunier@eurofinsanz.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

#1111447
25/6/24

My office hours are 9am to 5:30pm (Monday to Friday)
If you require sample receipt outside these hours please email envirosamplevic@eurofins.com

From: Kate Lough <klough@jbsg.com.au>
Sent: Tuesday, June 25, 2024 12:56 PM
To: Amy Meunier <Amy.Meunier@eurofinsanz.com>
Subject: Additional testing - lab reports 1108479, 1107846 and 1108287
Importance: High

Hi Amy,

Can I please order the following additional testing for lab reports 1108479, 1107846 and 1108287 (Osborne 67064):

- Silica gel cleanup then TRH for: FGW01, FGW03, MW01-MW08, DUP01

Please put this on 24 hr TAT. Can you please confirm when the results will be due?

Thanks,
Kate

Kate Lough | Principal – Contaminated Land, CEnvP SC Specialist | JBS&G
Kaurna Country | 100 Hutt St, Adelaide, SA
T: 08 8431 7113 | M: 0433 683 378 | E: klough@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

Please note my working days are Mondays, Wednesdays and Thursdays.

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (SA) P/L
Contact name: Kate Lough
Project name: OSBORNE EIS
Project ID: 67064
Turnaround time: 1 Day
Date/Time received Jun 25, 2024 12:56 PM
Eurofins reference 1111447

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Amy Meunier on phone : or by email: AmyMeunier@eurofins.com

Results will be delivered electronically via email to Kate Lough - klough@jbsg.com.au.

Global Leader - Results you can trust

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Certificate of Analysis

JBS & G Australia (SA) P/L
100 Hutt St
Adelaide
SA 5000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Kate Lough**

Report **1111447-W**
Project name OSBORNE EIS
Project ID 67064
Received Date Jun 25, 2024

Client Sample ID			**FGW01**	**FGW03**	**MW01**	**MW02**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M24-Jn0064270**	**M24-Jn0064271**	**M24-Jn0064272**	**M24-Jn0064273**
Date Sampled			**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**
Test/Reference	LOR	Unit				
TRH - 2013 NEPM Fractions (after silica gel clean-up)						
TRH >C10-C16 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total) (after silica-gel clean up)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH - 1999 NEPM Fractions (after silica gel clean-up)						
TRH C10-C14 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total) (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			**MW03**	**MW04**	**MW05**	**MW06**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M24-Jn0064274**	**M24-Jn0064275**	**M24-Jn0064276**	**M24-Jn0064277**
Date Sampled			**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**	**Jun 14, 2024**
Test/Reference	LOR	Unit				
TRH - 2013 NEPM Fractions (after silica gel clean-up)						
TRH >C10-C16 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total) (after silica-gel clean up)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH - 1999 NEPM Fractions (after silica gel clean-up)						
TRH C10-C14 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total) (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1

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Client Sample ID			MW07	MW08	DUP01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M24-Jn0064278	M24-Jn0064279	M24-Jn0064280
Date Sampled			Jun 14, 2024	Jun 14, 2024	Jun 14, 2024
Test/Reference	LOR	Unit			
TRH - 2013 NEPM Fractions (after silica gel clean-up)					
TRH >C10-C16 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05
TRH >C16-C34 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH >C34-C40 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total) (after silica-gel clean up)*	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH - 1999 NEPM Fractions (after silica gel clean-up)					
TRH C10-C14 (after silica gel clean-up)	0.05	mg/L	< 0.05	< 0.05	< 0.05
TRH C15-C28 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH C29-C36 (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total) (after silica gel clean-up)	0.1	mg/L	< 0.1	< 0.1	< 0.1

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Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
TRH - 2013 NEPM Fractions (after silica gel clean-up)	Melbourne	Jun 25, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
TRH - 1999 NEPM Fractions (after silica gel clean-up)	Melbourne	Jun 25, 2024	7 Days
- Method: TRH C6-C36 (Silica Gel Cleanup) - MGT 100A			

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Eurofins Environment Testing Australia Pty Ltd
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079 & 25289

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (SA) P/L
Address: 100 Hutt St
Adelaide
SA 5000

Project Name: OSBORNE EIS
Project ID: 67064

Order No.:
Report #: 1111447
Phone: 08 8431 7113
Fax: 08 8431 7115

Received: Jun 25, 2024 12:56 PM
Due: Jun 26, 2024
Priority: 1 Day
Contact Name: Kate Lough

Eurofins Analytical Services Manager : Amy Meunier

Sample Detail						TRH (after Silica Gel cleanup)
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	FGW01	Jun 14, 2024		Water	M24-Jn0064270	X
2	FGW03	Jun 14, 2024		Water	M24-Jn0064271	X
3	MW01	Jun 14, 2024		Water	M24-Jn0064272	X
4	MW02	Jun 14, 2024		Water	M24-Jn0064273	X
5	MW03	Jun 14, 2024		Water	M24-Jn0064274	X
6	MW04	Jun 14, 2024		Water	M24-Jn0064275	X
7	MW05	Jun 14, 2024		Water	M24-Jn0064276	X
8	MW06	Jun 14, 2024		Water	M24-Jn0064277	X
9	MW07	Jun 14, 2024		Water	M24-Jn0064278	X
10	MW08	Jun 14, 2024		Water	M24-Jn0064279	X
11	DUP01	Jun 14, 2024		Water	M24-Jn0064280	X
Test Counts						11

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
Method Blank							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH C15-C28 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH C29-C36 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
Method Blank							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
Method Blank							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH C15-C28 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH C29-C36 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
Method Blank							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
Method Blank							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	mg/L	< 0.05			0.05	Pass	
TRH C15-C28 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
TRH C29-C36 (after silica gel clean-up)	mg/L	< 0.1			0.1	Pass	
LCS - % Recovery							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	%	104			70-130	Pass	
LCS - % Recovery							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	%	110			70-130	Pass	
LCS - % Recovery							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	%	96			70-130	Pass	
LCS - % Recovery							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	%	76			70-130	Pass	
LCS - % Recovery							
TRH - 2013 NEPM Fractions (after silica gel clean-up)							
TRH >C10-C16 (after silica gel clean-up)	%	108			70-130	Pass	
LCS - % Recovery							
TRH - 1999 NEPM Fractions (after silica gel clean-up)							
TRH C10-C14 (after silica gel clean-up)	%	116			70-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
TRH - 2013 NEPM Fractions (after silica gel clean-up)				Result 1	Result 2	RPD			
TRH >C10-C16 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
TRH - 1999 NEPM Fractions (after silica gel clean-up)				Result 1	Result 2	RPD			
TRH C10-C14 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36 (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C10-C36 (Total) (after silica gel clean-up)	M24-Jn0064270	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Amy Meunier	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MFF028.0

Date Received: 18/6/24
Time Received: 12PM
Received By: AG
Temp: Cool/Ambient 12.5°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

6

L.O

18/6
8:00
Am

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Adelaide
100 Hutt St Adelaide, SA 5000
T: +61 8 8431 7113 · F: +61 8 8431 7115
ACN 140 229 479 · ABN 83 140 229 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.:
SITE/PROJECT NAME: Osborne EIS	COC Reference #: GW_Batch2_140624	SAMPLERS: AB / JA
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 08 8431 7113 FAX: 08 8431 7115
DATA NEEDED BY: Standard TAT	REPORT NEEDED BY: Standard TAT	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 67064	QUOTE #:	JBS&G OFFICE TO SEND RESULTS: South Australia

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Overnight
NAME: Jack Ayers	DATE: 14/06/24	NAME:	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME: 3.30pm	OF:	TIME:	
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	
P.O. NO.:	COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	ANALYSIS REQUIRED		

FOR LAB USE ONLY
COOLER SEAL
Yes ..... No .....
Broken ..... Intact .....
COOLER TEMP: deg.C

Please forward results and invoice to:
labresults@jbsg.com.au
klough@jbsg.com.au
layers@jbsg.com.au
abowne@jbsg.com.au

SAMPLE DATA						CONTAINER DATA			PFAS (38)	B10A (TRH/BTEX, PAH, OCP's, PCBs, HM8)	Molybdenum, Selenium	CrVI	VOCs	Phenols	Cyanide	Organotins	Methane	BR (TRH/BTEX/M8)	BT (TRH/BTEX/PAH/M8)						NOTES
SAMPLE ID	TOP DEPTH	BOTTOM DEPTH	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field																	
CGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								Please send SPLIT01 and SPLIT02 to Envirolab for analysis with a copy of this COC
CGW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
CGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
FGW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
FGW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW01	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW02	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW03	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW05	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW06	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
MW07	N/A	N/A	Water	14/06/2024		2x pink vials, 2x orange vials, 2x amber, 1x cyanide, 1x HM, 1x PFAS	9		X	X	X	X	X	X	X	X	X								
DUP01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X						
DUP02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																
SPLIT01	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS, 1x cyanide	6		X						X				X						Please send to Envirolab for analysis
SPLIT02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																Please send to Envirolab for analysis
RB02	N/A	N/A	Water	14/06/2024		2x pink vials, 1x amber, 1x HM, 1x PFAS	5		X										X						
TB02	N/A	N/A	Water	14/06/2024		1x PFAS	1		X																
								TOTAL	17	11	11	11	11	11	13	11	11	1	2	0	0	0	0	0	

Envirolab Services Pty Ltd
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25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MFF0280

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Contact	Kate Lough
Address	100 Hutt St, ADELAIDE, SA, 5000

Sample Details

Your Reference	67064 Osborne EIS
Number of Samples	2 Water
Date Samples Received	18/06/2024
Date Instructions Received	18/06/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	25/06/2024
Date of Issue	25/06/2024

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Azrin Akram, Senior Chemist Chaminda Gunasekara, Inorganics Supervisor Tara White, Metals Supervisor Tianna Milburn, Senior Chemist
Laboratory Manager	Pamela Adams

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Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MFF0280-01	SPLIT01	Water	14/06/2024	18/06/2024
MFF0280-02	SPLIT02	Water	14/06/2024	18/06/2024

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Volatile TRH and BTEX (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
TRH C6-C9	µg/L	10	<50
TRH C6-C10	µg/L	10	<50
TRH C6-C10 less BTEX (F1)	µg/L	10	<50
Methyl tert butyl ether (MTBE)	µg/L	1.0	<5.0
Benzene	µg/L	1.0	<5.0
Toluene	µg/L	1.0	<5.0
Ethylbenzene	µg/L	1.0	<5.0
meta+para Xylene	µg/L	2.0	<10
ortho-Xylene	µg/L	1.0	<5.0
Total Xylene	µg/L	3.0	<15
Naphthalene (value used in F2 calc)	µg/L	1.0	<5.0
Surrogate Dibromofluoromethane	%		*70.4*
Surrogate Toluene-D8	%		*111*
Surrogate 4-Bromofluorobenzene	%		*110*

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Semi-volatile TRH (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
TRH C10-C14	µg/L	50	260
TRH C15-C28	µg/L	100	430
TRH C29-C36	µg/L	100	<100
Total +ve TRH C10-C36	µg/L	50	690
TRH >C10-C16	µg/L	50	270
TRH >C10-C16 less Naphthalene F2	µg/L	50	270
TRH >C16-C34 (F3)	µg/L	100	400
TRH >C34-C40 (F4)	µg/L	100	<100
Total +ve TRH >C10-C40	µg/L	50	670
Surrogate o-Terphenyl	%		*38.3 [2]*

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Polycyclic Aromatic Hydrocarbons (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Naphthalene	µg/L	0.10	1.8
Acenaphthylene	µg/L	0.10	<0.10
Acenaphthene	µg/L	0.10	<0.10
Fluorene	µg/L	0.10	<0.10
Phenanthrene	µg/L	0.10	<0.10
Anthracene	µg/L	0.10	<0.10
Fluoranthene	µg/L	0.10	<0.10
Pyrene	µg/L	0.10	<0.10
Benzo(a)anthracene	µg/L	0.10	<0.10
Chrysene	µg/L	0.10	<0.10
Benzo(b,j,k)fluoranthene	µg/L	0.20	<0.20
Benzo(a)pyrene	µg/L	0.10	<0.10
Indeno(1,2,3-c,d)pyrene	µg/L	0.10	<0.10
Dibenzo(a,h)anthracene	µg/L	0.10	<0.10
Benzo(g,h,i)perylene	µg/L	0.10	<0.10
Total +ve PAH	µg/L	0.10	1.8
Surrogate p-Terphenyl-D14	%		*40.7 [3]*

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Dissolved Low Level Metals (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Arsenic	µg/L	1.0	120
Cadmium	µg/L	0.10	<0.50
Chromium	µg/L	1.0	19
Copper	µg/L	1.0	<5.0
Mercury	µg/L	0.050	<0.50
Nickel	µg/L	1.0	360
Lead	µg/L	1.0	<5.0
Zinc	µg/L	1.0	<5.0

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Inorganics - Cyanide Species and Similar (Water)

Envirolab ID	Units	PQL	MFF0280-01
Your Reference			SPLIT01
Date Sampled			14/06/2024
Total Cyanide	mg/L	0.0040	0.011

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PFAS Extended List (Water)

Envirolab ID	Units	PQL	MFF0280-01	MFF0280-02
Your Reference			SPLIT01	SPLIT02
Date Sampled			14/06/2024	14/06/2024
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.10 [5]	0.76 [5]
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorobutanoic acid (PFBA)	µg/L	0.020	<0.20 [5]	<0.40 [5]
Perfluoropentanoic acid (PFPeA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.10 [5]	<0.10 [5]
Perfluorodecanoic acid (PFDA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorododecanoic acid (PFDoDA)	µg/L	0.050	<0.50 [5]	<0.50 [5]
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.50	<5.0 [5]	<5.0 [5]
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.010	<0.10 [5]	<0.10 [5]
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.020	<0.20 [5]	<0.20 [5]
Perfluorooctane sulfonamide (FOSA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.50 [5]	<0.50 [5]
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<1.0 [5]	<1.0 [5]
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.50 [5]	<0.50 [5]
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<5.0 [5]	<5.0 [5]
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.20 [5]	<0.20 [5]
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.20 [5]	<0.20 [5]
Surrogate 13C8 PFOS	%		*96.6 [5]*	*94.2 [5]*
Surrogate 13C2 PFOA	%		*96.3 [5]*	*97.8 [5]*
Total +ve PFHxS+PFOS	µg/L	0.010	<0.10	<0.10
Total +ve PFOA+PFOS	µg/L	0.010	<0.10	<0.10
Total +ve PFAS	µg/L	0.010	<0.10	0.76
Extraction Internal Standard 13C3 PFBS	%		*121*	*121*
Extraction Internal Standard 18O2 PFHxS	%		*111*	*109*
Extraction Internal Standard 13C4 PFOS	%		*121*	*121*
Extraction Internal Standard 13C4 PFBA	%		*71.3*	*40.2 [4]*
Extraction Internal Standard 13C3 PFPeA	%		*97.1*	*91.8*
Extraction Internal Standard 13C2 PFHxA	%		*111*	*100*
Extraction Internal Standard 13C4 PFHpA	%		*119*	*113*
Extraction Internal Standard 13C4 PFOA	%		*132*	*119*
Extraction Internal Standard 13C5 PFNA	%		*129*	*125*
Extraction Internal Standard 13C2 PFDA	%		*133*	*136*

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PFAS Extended List (Water)

Envirolab ID	Units	PQL	MFF0280-01	MFF0280-02
Your Reference			SPLIT01	SPLIT02
Date Sampled			14/06/2024	14/06/2024
Extraction Internal Standard 13C2 PFUnDA	%		*139*	*151 [4]*
Extraction Internal Standard 13C2 PFDoDA	%		*130*	*132*
Extraction Internal Standard 13C2 PFTeDA	%		*120*	*129*
Extraction Internal Standard 13C2 4:2FTS	%		*107*	*117*
Extraction Internal Standard 13C2 6:2FTS	%		*131*	*## [4]*
Extraction Internal Standard 13C2 8:2FTS	%		*160 [4]*	*## [4]*
Extraction Internal Standard 13C8 FOSA	%		*144*	*135*
Extraction Internal Standard d3 N MeFOSA	%		*76.5*	*71.3*
Extraction Internal Standard d5 N EtFOSA	%		*114*	*115*
Extraction Internal Standard d7 N MeFOSE	%		*118*	*123*
Extraction Internal Standard d9 N EtFOSE	%		*119*	*125*
Extraction Internal Standard d3 N MeFOSAA	%		*150 [4]*	*## [4]*
Extraction Internal Standard d5 N EtFOSAA	%		*145*	*## [4]*

Result Comments

Identifier	Description
[2]	Surrogate recovery was low due to sample(s) emulsifying during liquid liquid extraction.
[3]	Surrogate recovery was outside routine acceptance criteria (60-140%) due to sample matrix effects. This may be due to the presence of carbon and/or other artefacts. An acceptable recovery was achieved for the LCS surrogates.
[4]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[5]	PQL has been raised due to matrix requiring dilution

Method Summary

Method ID	Methodology Summary
INORG-014	Cyanide - free, total, weak acid dissociable by segmented flow analyser (in line dialysis with colourimetric finish). Solids/Filters and sorbents are extracted in a caustic media prior to analysis. Impingers are pH adjusted as required prior to analysis. Cyanides amenable to Chlorination - samples are analysed untreated and treated with hypochlorite to assess the potential for chlorination of cyanide forms.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-022	Determination of various metals by ICP-MS.Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.Salt forms and/or anion/cation forms (e.g. FeO, PbO, ZnO, BO3) are determined stoichiometrically from the base metal concentration.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-022_PAH	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and solids using DCM/Acetone/Methanol. For PAHs:- Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, for Total +ve calculations, the PQL is reflective of the lowest individual PQL and therefore, for example, "Total +ve PAHs" is simply a sum of the positive individual PAHs.
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MFF0280

Client Details

Client	JBS & G Australia Pty Ltd (Adelaide)
Your Reference	67064 Osborne EIS
Date Issued	25/06/2024

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	No	QC Frequency Outliers Exist - See detailed list below

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MFF0280

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Water	1	14/06/2024	25/06/2024	25/06/2024	Yes
sTRH | Water	1	14/06/2024	19/06/2024	19/06/2024	Yes
PAH | Water	1	14/06/2024	19/06/2024	19/06/2024	Yes
Dissolved Metals (LL) | Water	1	14/06/2024	19/06/2024	21/06/2024	Yes
Dissolved Metals (LL)-Hg | Water	1	14/06/2024	19/06/2024	24/06/2024	Yes
Cyanide - Total | Water	1	14/06/2024	25/06/2024	25/06/2024	Yes
PFAS EXT-ISTD | Water	1-2	14/06/2024	19/06/2024	20/06/2024	Yes
PFAS-Extended | Water	1-2	14/06/2024	19/06/2024	20/06/2024	Yes

Outliers: Matrix Spike

METALS-021|Dissolved Low Level Metals (Water)| Batch BFF2953

Sample ID	Analyte	% Limits	% Recovery
BFF2953-MS1#	Mercury	70 - 130	##[1]

METALS-022|Dissolved Low Level Metals (Water)| Batch BFF2912

Sample ID	Analyte	% Limits	% Recovery
BFF2912-MS1#	Zinc	70 - 130	##[1]

Data Quality Assessment Summary MFF0280

Outliers: Surrogate / Extracted Internal Standards

ORG-020|Semi-volatile TRH (Matrix)| Batch BFF2717

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	o-Terphenyl	60 - 140	38.3% [2]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Matrix)| Batch BFF2717

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	p-Terphenyl-D14	60 - 140	40.7% [3]

ORG-029|PFAS Extended List (Matrix)| Batch BFF2721

Sample ID	Analyte	% Limits	% Recovery
MFF0280-01	Extraction Internal Standard 13C2 8:2FTS	50 - 150	160 [4]
MFF0280-02	Extraction Internal Standard d5 N EtFOSAA	50 - 150	## [4]
	Extraction Internal Standard d3 N MeFOSAA	50 - 150	## [4]
	Extraction Internal Standard 13C4 PFBA	50 - 150	40.2 [4]
	Extraction Internal Standard 13C2 PFUnDA	50 - 150	151 [4]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	## [4]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	## [4]

Outliers: QC Frequency

ORG-020|Semi-volatile TRH (Water)| Batch BFF2717

Analysis	QC Type	Expected	Reported
sTRH	Duplicate	1	0
	Matrix Spike	1	0

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Water)| Batch BFF2717

Analysis	QC Type	Expected	Reported
PAH	Duplicate	1	0
	Matrix Spike	1	0

Quality Control MFF0280

ORG-023_F1_TOT|Volatile TRH and BTEX (Water) | Batch BFF3761

Analyte	Units	PQL	Blank	DUP1 BFF3761-DUP1# Samp | QC | RPD %	LCS %	Spike % BFF3761-MS1#
TRH C6-C9	µg/L	10	<10	<10 | <10 | [NA]	95.9	[NA]
TRH C6-C10	µg/L	10	<10	<10 | <10 | [NA]	89.5	[NA]
TRH C6-C10 less BTEX (F1)	µg/L	10	<10	<10 | <10 | [NA]	[NA]	[NA]
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Benzene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	120	120
Toluene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	115	115
Ethylbenzene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	96.2	96.2
meta+para Xylene	µg/L	2.0	<2.0	<2.0 | <2.0 | [NA]	99.7	99.7
ortho-Xylene	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	99.1	99.1
Total Xylene	µg/L	3.0	<3.0	<3.0 | <3.0 | [NA]	[NA]	[NA]
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	[NA]	[NA]
Surrogate Dibromofluoromethane	*%*		*101*	*109 | 109*	*106*	*107*
Surrogate Toluene-D8	*%*		*109*	*110 | 110*	*111*	*109*
Surrogate 4-Bromofluorobenzene	*%*		*107*	*110 | 111*	*113*	*112*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-020|Semi-volatile TRH (Water) | Batch BFF2717

Analyte	Units	PQL	Blank	LCS %
TRH C10-C14	µg/L	50	<50	83.5
TRH C15-C28	µg/L	100	<100	83.7
TRH C29-C36	µg/L	100	<100	94.3
TRH >C10-C16	µg/L	50	<50	70.7
TRH >C16-C34 (F3)	µg/L	100	<100	87.0
TRH >C34-C40 (F4)	µg/L	100	<100	78.0
Surrogate o-Terphenyl	*%*		*71.7*	*64.9*

Batch QC Comments: [6]

ORG-022_PAH|Polycyclic Aromatic Hydrocarbons (Water) | Batch BFF2717

Analyte	Units	PQL	Blank	LCS %
Naphthalene	µg/L	0.10	<0.10	85.3
Acenaphthylene	µg/L	0.10	<0.10	[NA]
Acenaphthene	µg/L	0.10	<0.10	90.6
Fluorene	µg/L	0.10	<0.10	93.5
Phenanthrene	µg/L	0.10	<0.10	95.4
Anthracene	µg/L	0.10	<0.10	[NA]
Fluoranthene	µg/L	0.10	<0.10	112
Pyrene	µg/L	0.10	<0.10	115
Benzo(a)anthracene	µg/L	0.10	<0.10	[NA]
Chrysene	µg/L	0.10	<0.10	101
Benzo(b,j,k)fluoranthene	µg/L	0.20	<0.20	[NA]
Benzo(a)pyrene	µg/L	0.10	<0.10	103
Indeno(1,2,3-c,d)pyrene	µg/L	0.10	<0.10	[NA]
Dibenzo(a,h)anthracene	µg/L	0.10	<0.10	[NA]
Benzo(g,h,i)perylene	µg/L	0.10	<0.10	[NA]
Surrogate p-Terphenyl-D14	*%*		*121*	*112*

Batch QC Comments: [6]

Quality Control MFF0280

METALS-022|Dissolved Low Level Metals (Water) | Batch BFF2912

Analyte	Units	PQL	Blank	DUP1 BFF2912-DUP1# Samp | QC | RPD %	DUP2 BFF2912-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2912-MS1#
Arsenic	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	374 | 379 | 1.27	108	99.8
Cadmium	µg/L	0.10	<0.10	<0.10 | <0.10 | [NA]	2.44 | 2.44 | 0.00	113	99.8
Chromium	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	3.78 | 3.56 | 5.99	109	97.3
Copper	µg/L	1.0	<1.0	2.52 | 2.26 | 10.9	36.7 | 36.7 | 0.109	111	99.5
Lead	µg/L	1.0	<1.0	1.88 | 1.87 | 0.533	103 | 102 | 0.604	102	80.3
Nickel	µg/L	1.0	<1.0	3.71 | 3.11 | 17.6	21.1 | 21.5 | 1.88	110	99.4
Zinc	µg/L	1.0	<1.0	12.0 | 11.5 | 4.60	169 | 170 | 0.165	109	##[1]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-021|Dissolved Low Level Metals (Water) | Batch BFF2953

Analyte	Units	PQL	Blank	DUP1 BFF2953-DUP1# Samp | QC | RPD %	DUP2 BFF2953-DUP2# Samp | QC | RPD %	LCS %	Spike % BFF2953-MS1#
Mercury	µg/L	0.050	<0.050	<0.050 | <0.050 | [NA]	<0.050 | <0.050 | [NA]	103	##[1]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-014|Inorganics - Cyanide Species and Similar (Water) | Batch BFF3913

Analyte	Units	PQL	Blank	DUP1 MFF0280-01 Samp | QC | RPD %	LCS %	Spike % MFF0280-01
Total Cyanide	mg/L	0.0040	<0.0040	0.0114 | 0.0127 | 11.2	98.9	73.2

Quality Control MFF0280

ORG-029|PFAS Extended List (Water) | Batch BFF2721

Analyte	Units	PQL	Blank	DUP1 MFF0280-01 Samp | QC | RPD %	LCS %	Spike % MFF0280-02
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	109	94.4
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	103	97.7
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	112	104
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	113	137
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	104	83.7
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	111	102
Perfluorobutanoic acid (PFBA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	70.0
Perfluoropentanoic acid (PFPeA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	79.0
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	91.7
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	103	84.9
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	84.2
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	112	89.1
Perfluorodecanoic acid (PFDA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	109	67.7
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	112	79.3
Perfluorododecanoic acid (PFDoDA)	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	112	84.1
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	111	91.2
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.50	<0.50	<5.0 | <5.0 | [NA] [5]	113	85.4
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	110	76.6
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.010	<0.010	<0.10 | <0.10 | [NA] [5]	114	93.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	101	85.6
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	105	96.2
Perfluorooctane sulfonamide (FOSA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	106	84.9
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	105	103
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	<1.0 | <1.0 | [NA] [5]	127	113
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	<0.50 | <0.50 | [NA] [5]	99.1	88.8
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	<5.0 | <5.0 | [NA] [5]	115	88.6
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	112	64.5
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.020	<0.020	<0.20 | <0.20 | [NA] [5]	115	84.3
Surrogate 13C8 PFOS	%		*84.9*	*96.6 | 96.7 [5]*	*92.0*	*89.9*
Surrogate 13C2 PFOA	%		*95.5*	*96.3 | 95.5 [5]*	*95.3*	*95.8*
Extraction Internal Standard 13C3 PFBS	%		*101*	*121 | 120 | 0.881*	[NA]	[NA]
Extraction Internal Standard 18O2 PFHxS	%		*97.4*	*111 | 113 | 1.74*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOS	%		*104*	*121 | 127 | 4.78*	[NA]	[NA]
Extraction Internal Standard 13C4 PFBA	%		*106*	*71.3 | 75.4 | 5.62*	[NA]	[NA]
Extraction Internal Standard 13C3 PFPeA	%		*109*	*97.1 | 102 | 5.30*	[NA]	[NA]
Extraction Internal Standard 13C2 PFHxA	%		*105*	*111 | 120 | 7.46*	[NA]	[NA]
Extraction Internal Standard 13C4 PFHpA	%		*108*	*119 | 123 | 3.37*	[NA]	[NA]
Extraction Internal Standard 13C4 PFOA	%		*109*	*132 | 137 | 4.01*	[NA]	[NA]
Extraction Internal Standard 13C5 PFNA	%		*107*	*129 | 132 | 2.21*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDA	%		*109*	*133 | 136 | 2.31*	[NA]	[NA]
Extraction Internal Standard 13C2 PFUnDA	%		*112*	*139 | 149 | 6.35*	[NA]	[NA]
Extraction Internal Standard 13C2 PFDoDA	%		*105*	*130 | 134 | 2.36*	[NA]	[NA]
Extraction Internal Standard 13C2 PFTeDA	%		*102*	*120 | 122 | 1.57*	[NA]	[NA]
Extraction Internal Standard 13C2 4:2FTS	%		*102*	*107 | 111 | 3.65*	[NA]	[NA]
Extraction Internal Standard 13C2 6:2FTS	%		*97.3*	*131 | 135 | 3.37*	[NA]	*##[4]*
Extraction Internal Standard 13C2 8:2FTS	%		*123*	*## | ## | [NA] [4]*	[NA]	*##[4]*
Extraction Internal Standard 13C8 FOSA	%		*107*	*144 | 148 | 2.64*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSA	%		*58.0*	*76.5 | 73.7 | 3.74*	[NA]	[NA]
Extraction Internal Standard d5 N EtFOSA	%		*91.8*	*114 | 120 | 5.03*	[NA]	[NA]
Extraction Internal Standard d7 N MeFOSE	%		*102*	*118 | 123 | 4.27*	[NA]	[NA]
Extraction Internal Standard d9 N EtFOSE	%		*98.3*	*119 | 122 | 2.45*	[NA]	[NA]
Extraction Internal Standard d3 N MeFOSAA	%		*117*	*150 | 162 | 7.65 [4]*	[NA]	*##[4]*
Extraction Internal Standard d5 N EtFOSAA	%		*110*	*145 | 155 | 6.18 [4]*	[NA]	*##[4]*

Quality Control MFF0280

QC Comments

Identifier	Description
[1]	Spike recovery is outside routine acceptance criteria (70-130%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[4]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).
[5]	PQL has been raised due to matrix requiring dilution
[6]	Unable to perform all QC according to our internal guidelines due to the limited amount of sample(s) available for testing.

Document Distribution

Rev No.	Copies	Recipient	Date
RevA (Draft)	1x electronic PDF	URPS	2 July 2024
RevB (Draft)	1x electronic PDF	URPS	16 August 2024
Rev0 (Final)	1x electronic PDF	URPS	11 November 2024

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