

SOUTHERN LAUNCH

Whalers Way Orbital Launch Complex

Assessment Guidelines Response Reference Matrix

Assessment Requirement 1 – Effect on Conservation Values

The subject site adjoins the Thorny Passage Marine Park which is a significant flora and fauna marine environment. The Jussieu Peninsula to Coffin Bay Peninsula is a significant Biodiversity Area which encompasses the subject site and contains a large tract of remnant native vegetation. The site is also located approximately 3.6 km from the offshore island Liguanea Island, which contains an Australian Sealion colony and Short-Tailed Shearwater colony. Liguanea Island is located within the Lincoln National Park. The conservation values of these areas are to be quantified and protected.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
1.1	Identify the existing terrestrial and marine environments and species that are known and likely to occur on the subject site and surrounds. Detail the conservation values for the Thorny Passage Marine Park, Jussieu Peninsula to Coffin Bay Peninsula Biodiversity Area and Lincoln National Park (including species listed in the <i>SA National Parks and Wildlife Act 1972</i>).	Section 11.4.1	Appendix P Appendix S
1.2	Detail the potential impacts on terrestrial and marine habitat for each potential launching site and associated impact area, including runoff from storm and wastewater into the marine environment due to the increase in impervious surfaces, impacts from noise and vibration during launches and impacts of the exhaust from rockets. Both terrestrial and marine ecosystems must be considered for all operational activities. Provide adequate mitigation and management measures for each area in turn.	Section 11.4.2	Appendix U Appendix O
1.3	Identify the potential trajectory of launched vehicles and likely location, extent, composition and amount of debris and spent componentry anticipated to impact on the surrounding area, including the adjoining Marine Park. Propose operational management strategies to limit the impacts on the quantified conservation values.	Section 11.4.3	Appendix S
1.4	Describe the rationale for the major design elements of the proposed development and measures to mitigate the impact.	Section 11.4.4	Appendix P Appendix U Appendix AD Appendix AE

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
1.5	Describe the effect of the proposed development on coastal clifftop dunes, cliffs, limestone and calcrete formations of the site, and associated heathland shrubland communities, and outline management and rehabilitation measures for these areas.	Section 11.4.5	Appendix M Appendix Z Appendix P
1.6	Describe any alterations to the physical landforms by the construction (e.g., levelling of sand dunes, filling of low-lying areas) and describe management and rehabilitation measures for these areas.	Section 11.4.6	Appendix M

Assessment Requirement 2 – Effect on Native Vegetation

The proposed development is located on land which currently holds significant stands of native vegetation within the Coastal Conservation zone.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
2.1	Describe the location, condition and significance of native vegetation on the subject site, including individual species and communities. Include reference to areas that have Heritage Agreements under the <i>Native Vegetation Act 1991</i> and any proposed alterations to or implications for the Heritage Agreement.	Section 7.4.1	Appendix P
2.2	Describe the location, condition and significance of native vegetation species and communities that may need to be cleared or disturbed during both the construction and maintenance phases. This should include clearing for all buildings, structures, exclusion zones and access arrangements.	Section 7.4.2	Appendix P
2.3	Describe the potential impacts on native vegetation fragmentation and the ability of communities or individual species to recover, regenerate or be rehabilitated during all phases of development.	Section 7.4.3	Appendix P
2.4	Identify the habitat value of native vegetation and the potential for habitat fragmentation during both construction and maintenance (and decommissioning). Include a description of the effects of any fragmentation that may occur over the life of the project.	Section 7.4.4	Appendix P
2.5	Detail any likely changes in remaining vegetation surrounding the launch pads, which may be impacted by the proposed operations. Mitigation measures should be documented to minimise the impact on remaining species and communities in the immediate vicinity of the launch pads.	Section 7.4.5	Appendix P
2.6	Outline any compensatory activities proposed, making reference to guidelines produced by the Native Vegetation Council.	Section 7.4.6	Appendix P
2.7	Identify the potential impact of fire on native vegetation, and the effects of fire risk management processes during both construction and operation.	Section 7.4.7	Appendix P
2.8	Describe the location, extent, condition and significance of native vegetation species and communities in the marine environment within the impact area of spent (discarded) launch vehicles.	Section 7.4.8	Appendix P

Assessment Requirement 3 – Effect on Native Fauna

The proposed development will be constructed on land, but will also operate in the airspace and over adjoining waters with potential impacts on terrestrial and marine habitats which support significant populations of native fauna.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
3.1	Describe the location, extent, condition and significance of native terrestrial and marine fauna populations, including individual species and communities in the surrounding area, including on land, cliffs and in adjoining waters, including Liguanea Island.	Section 9.4.1	Appendix P Appendix R Appendix S
3.2	Describe the nature and extent of the impacts likely to affect native terrestrial and marine fauna species and populations during both construction and operation. Describe the ability of communities and individual species to recover, especially threatened or significant species (including those listed under the <i>National Parks and Wildlife Act 1972</i>). Specifically consider the impact of marine debris.	Section 9.4.2	Appendix O Appendix P Appendix R Appendix S
3.3	Identify the effect of the proposal on terrestrial habitat fragmentation including the ability of populations or individuals to recover during both construction and operation.	Section 9.4.3	Appendix P
3.4	Identify the potential impact of fire and explosion on native fauna, and the effects of fire risk management processes during both construction, operation and maintenance.	Section 9.4.4	Appendix P Appendix AD Appendix AE
3.5	Identify the potential impact of fire and explosion on native fauna, and the effects of fire risk management processes during both construction, operation and maintenance.	Section 9.4.5	Appendix O Appendix P Appendix S
3.6	Detail appropriate buffer distances that would be required between proposed development (including coastal access points) and threatened terrestrial and marine species, including feeding areas, nesting sites and roosting sites.	Section 9.4.6	
3.7	Outline measures to avoid, minimise, mitigate and monitor the effects on native fauna, including any compensatory activities.	Section 9.4.7	Appendix P Appendix AD Appendix AE

Assessment Requirement 4 – Hazard Risks

The construction and operation of a launch complex involves a range of general and specific risks.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
4.1	Undertake a risk assessment to quantify hazards and potential eventualities involved with operating the orbital launch complex.	Section 20.4	Appendix AB
4.2	Articulate the measures taken to mitigate the risks involved in launch operations. Detail the site emergency response strategies, specifically in the event of an explosion or incomplete launch. Quantify the impact of launch vehicle failure on the pad and throughout the trajectory.	Sections 20.4.2 Section 23	Appendix AB
4.3	Evaluate the fire risk and danger zone for the proposed launching complex and high voltage power lines. Document measures to minimise fire risk, resources, and training required and firefighting water sources.	Section 20.4	Appendix AB
4.4	Identify the publicly restricted buffer and exclusion zones for each launch pad. Describe the methodology to establish the various buffers and zones and the corresponding distances, including airspace and marine waters. Articulate the anticipated security measures to ensure public safety.	Sections 20.4.3 Section 5.6	Appendix AB
4.5	Outline any risks for workplace safety procedures which mitigate and manage the operational phase of the development ensuring all activities on site are described.	Section 20.4	Appendix AB
4.6	Describe any hazardous materials, including propellants, with reference to storage, use, handling and disposal of these materials during construction and operation. Document the physical and operational mitigation strategies to contain propellants and eliminate spills.	Section 20.4.2	Appendix AB
4.7	Identify any potential effects on airfields and aircraft movements and consult with the Civil Aviation Safety Authority Australia and the District Council of Lower Eyre Peninsula (Port Lincoln Airport) about the requirements for development within the vicinity of airfields and on flightpaths.	Sections 20.4 Sections 6.5 Section 6.6 Section 6.7	Appendix AB
4.8	Consider and quantify the impacts of the development on commercial shipping and aircraft routes during operations.	Sections 20.4 Sections 6.5 Section 6.6 Section 6.7	Appendix AB

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
4.9	Consider and quantify the impacts of the development on commercial and recreational fishing areas during operations i.e., safety of commercial fishermen from falling debris and the need for temporary exclusion zones.	Section 20.4	Appendix AB
4.10	Describe the potential impacts on the Cathedral Rocks wind farm.	Section 20.4	Appendix AB
4.11	Describe the likelihood of bird and bat strike and the management of such a hazard.	Section 20.4	Appendix AB
4.12	Evaluate the wind recirculation zones and the corresponding potential impacts on operations.	Section 20.4	Appendix AB
4.13	Describe risk minimisation, management and response requirements.	Section 20.4.2	Appendix AB
4.14	Identify the impact of coastal erosion due to expected sea level rise of 0.3 metres to 2050 and 1.0 metres to 2100.	Section 20.4	Appendix AB Appendix M

Assessment Requirement 5 – Economic Risks

The proposal will have an impact on the local and State's economy during construction and operations and may result in immediate and long terms effects on residents, businesses and surrounding uses.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
5.1	Describe the proposal's anticipated effect on State and local investment, research and development, educational effects, employment generation and flow-on impacts on business.	Section 13.4.1	Appendix N
5.2	Describe potential employment opportunities and the expected impacts on the local workforce during construction and operational stages.	Section 13.4.1	Appendix N
5.3	Identify any potential economic effects on tourism, recreation, mining and petroleum related activities.	Section 13.4.4	Appendix N
5.4	Identify any secondary economic effects, including the potential to attract new industries and commercial ventures. Describe the positive and negative effects of this, including the current situation.	Section 13.4.1	Appendix N
5.5	Identify any economic implications for the State and the region if the proposal does not proceed.	Section 13.4.2	Appendix N
5.6	Consider and quantify the impacts of the development on commercial fishing areas during operations i.e., impacts on business if there is a need for temporary exclusion zones.	Section 13.4.3	Appendix N
5.7	Document the consultation undertaken with mining and petroleum tenement holders (onshore and offshore). Describe how the development is anticipated to interact with mining and petroleum interests and operations, during the construction and operational phase.	Section 13.4.4	Appendix N

Assessment Requirement 6 – Noise and Vibration Impacts

The proposed development has the potential to disturb fauna, nearby residents and visitors through the creation of noise and vibration impacts.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
6.1	Detail the predicted levels of environmental noise and vibration associated with construction and operation of the proposed development, identifying all potential noise and vibration sources and assessing the impact upon sensitive receivers in the immediate and wider locality (including residents, visitors, marine fauna, terrestrial native animals and livestock, and avifauna including migratory species).	Section 8.4.1 Section 9.4.5	Appendix O Appendix P Appendix S Appendix AD Appendix AE
6.2	Provide information on the anticipated frequency of launch events, initially and into the future. Include information regarding individual launch events and predicted noise and vibration impacts to be generated.	Section 8.4.2	Appendix O Appendix P
6.3	The location of noise and vibration sensitive receivers should be identified on an appropriately scaled plan.	Section 8.4.3	Appendix O
6.4	Information, including noise contours from a suitable acoustic model, should be provided for all significant noise generating activities when operating under worst case meteorological conditions.	Section 8.4.3	Appendix O
6.5	Describe current background noise and vibration levels at sensitive receivers and changes to these levels as a result of the project (during both the construction, maintenance and operational phases). Sufficient data should be gathered to provide baseline information for comparison with any future monitoring undertaken during the construction and operational phases. Details of any noise or vibration monitoring undertaken should be incorporated.	Section 8.4.4	Appendix O
6.6	Detail the predicted noise levels against the <i>Environment Protection (Noise) Policy 2007</i> and Section 25 of the <i>Environment Protection Act 1993</i> at the nearest noise sensitive receivers when operating under worst case meteorological conditions.	Section 8.4.1	Appendix O
6.7	Identify what reasonable and practicable measures will be used to minimise impacts from noise and vibration and assess their effectiveness. Details of how any such measures will be monitored, audited and managed should be included.	Section 8.4.5	Appendix O Appendix AD Appendix AE
6.8	Identify the potential impact of noise and vibrations on native fauna (terrestrial and marine), and the mitigation and monitoring strategies during both construction and maintenance.	Section 8.4.6	Appendix O Appendix P

Assessment Requirement 7 – Visual Amenity and Tourism Impacts

The impact of permanent structures and visually prominent operations on a highly visible peninsula with substantial landscape value. There will be significant changes from the existing natural landform and conservation use, currently utilised for ecotourism purposes. Ongoing coastal tourism access is proposed along the eastern coastal boundary. Cape Wills Radio Station in the lower south-east is excluded from the lease area.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
7.1	Describe how the visual landscape and amenity will be altered by the development, for residents and visitors, for both near and distant views.	Section 16.4.1	Appendix Z
7.2	Describe and illustrate the development when viewed from the publicly accessible coastal reserve (Crown Land Allotment 102 – CR5993/375) or from the adjoining waters, on launch and non-launch days.	Section 16.4.2	Appendix Z
7.3	Outline the methodology adopted for classifying landscapes and assessing visual and landscape impacts.	Section 16.4.3	Appendix Z
7.4	Describe the impacts (amenity and economic) on the region's ecotourism sector and the existing caravan park in the north-east portion of the site.	Section 16.4.4	Appendix Z
7.5	Describe alternative measures for minimising potential loss of visual amenity.	Section 16.4.1	Appendix Z
7.6	Identify lookout / viewing locations and anticipated delivery timing of these facilities.	Section 16.4.5	Appendix Z
7.7	Identify any potential impacts on Cape Wills Radio Station.	Section 16.4.6	Appendix Z

Assessment Requirement 8 – Effect on the Physical Environment, Water and Air Quality

The proposed development has the potential to alter the natural landform, introduce air quality impacts, release greenhouse emissions and affect water quality in the vicinity.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
8.1	Describe the nature and condition of the existing physical environment in the proposal's environs, including reference to geology, geomorphology, soils, hydrology and atmosphere. Include any baseline data or monitoring established prior to development on the site.	Section 12.4.1	Appendix T
8.2	Identify the potential for pollution (e.g., fuel spills and launch debris) of watercourses, coastal drainage and groundwater, and what design, construction and management measures will be adopted to minimise such impacts. Document mitigation and monitoring strategies to limit any adverse impacts.	Section 12.4.2	Appendix U
8.3	Evaluate the potential for air quality to be impacted as a result of the proposal (e.g., fuel emissions, combustion products and generators, gases, steam etc.) and describe any sensitive receivers (including residents, land uses or environments) and the extent to which they may be impacted. Air quality impacts need to be assessed against the <i>Environment Protection (Air Quality) Policy 2016</i> in accordance with the EPA Ambient Air Quality Assessment 2016 publication. Document mitigation and monitoring strategies to limit any adverse impacts.	Section 12.4.3 Section 12.4.2	Appendix W Appendix X
8.4	Identify the potential for soil/ surface erosion and sand drift hazard, including the implications of these processes. Describe measures for the remediation of erosion or sand drift should it occur within the clifftop dune system as a result of the development.	Section 12.4.4	Appendix T
8.5	Describe stormwater and wastewater management and the potential impact on groundwater resources, surface water resources and the marine and coastal environment, in particular with regard to fuel and chemicals used in the operation of the development. Include measures proposed to manage stormwater and wastewater.	Section 12.4.5 Section 12.4.2	Appendix U
8.6	Undertake a high-level estimate of whole of life greenhouse gas emissions associated with the construction and operation of the facility and outline measures to minimise emissions through material selection including recycled products, operating methods and offsets. Estimates shall cover Scope 1, 2 and 3 emissions and as a minimum include: <ul style="list-style-type: none"> - embodied emissions of construction materials used in construction of the facility and consumables during operation (e.g., quarry products, concrete, asphalt, metals, fuels); - extraction, production, transportation of fuels; - transportation of purchased materials and waste; - disposal of waste; and - electricity. 	Section 12.4.6	Appendix X

Assessment Requirement 9 – Effect on Communities

The proposed development has the potential to affect the local community through the establishment and ongoing launch complex operations.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
9.1	Describe and illustrate the proximity of the proposed development to local communities and individual dwellings.	Section 18.4.1	
9.2	Describe the impacts which may impact on nearby communities and residents (e.g., businesses, employment, visual amenity, ecotourism).	Section 18.4.2 Section 13	Appendix N
9.3	Outline potential impacts on the use of the land by Aboriginal people, or on cultural values held by Aboriginal people that relate to the areas affected by the project (land and water).	Section 18.4.3	Appendix Y
9.4	Detail the impacts of the increased workforce on the communities and evaluate the necessary accommodation, and other local infrastructure such as schooling and health facilities, for peak periods of construction and operation.	Section 18.4.2 Section 13	Appendix N
9.5	Describe any community consultation processes conducted by the proponent, specifically detailing the support and / or any concerns raised about the proposed development.	Section 18.4.4	
9.6	Identify any potential effects on education and skills, or opportunities to retrain and upskill workers, in the State and local area.	Section 18.4.2 Section 13	Appendix N
9.7	Identify any impacts on recreational use of coastal land on and around the site, including recreational fishing and access to coastal crown land.	Section 18.4.5	

Assessment Requirement 10 – Introduced Plant and Animal Species

The proposed development has the potential for the spread of introduced or nuisance plants and animals and soil pathogens such as Phytophthora.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
10.1	Identify the potential for the introduction or dispersal of new pest or nuisance plant and animal species, and soil pathogens and the associated implications for native species and habitat.	Section 10.4.1	Appendix P
10.2	Identify the potential for increased distribution and abundance of existing pest or nuisance plants, and soil pathogens and the associated implications for terrestrial and coastal environments.	Section 10.4.2	Appendix P
10.3	Outline mitigation measures and their effectiveness in reducing or avoiding the introduction or spread of pest or nuisance plant and animal species.	Section 10.4.3	Appendix P Appendix AD Appendix AE

Assessment Requirement 11 – Security and Safety

The proposed development requires a level of security which complies with National requirements and extends across land, water and airspace.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
11.1	Where appropriate, provide information on the proposed physical equipment and structures, personnel and procedural security measures for the launch complex for construction and operational phases.	Section 21.4.1 Section 23	Appendix AB Appendix AC
11.2	Identify the safety and security measures anticipated to be developed for the publicly accessible areas, including any roads or viewing locations. Articulate the anticipated security measures to ensure public safety.	Section 21.4.1 Section 20 Section 22	Appendix AB Appendix AC

Assessment Requirement 12 – Effect on Cultural Heritage Values

The proposed development has the potential to impact on sites / locations of Aboriginal or non-aboriginal heritage through disturbance during construction and operation.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
12.1	Quantify any Aboriginal sites of archaeological or anthropological significance, including but not limited to those listed in the SA Register of Aboriginal Sites and Objects.	Section 17.4.1	Appendix Y
12.2	Identify any effects on Aboriginal sites of archaeological or anthropological significance. Indicate any consultation with local Aboriginal organisations that have an interest in the area, specifically addressing Native Title Claim Nauo No. 2.	Section 17.4.2	Appendix Y
12.3	Quantify any non-aboriginal settlement heritage places or elements on or adjoining the subject site, including but not limited to those listed in the SA Heritage Places Database (State and Local Heritage value).	Section 17.4.3	
12.4	Identify any impacts on non-aboriginal settlement heritage places or elements on or adjoining the subject site.	Section 17.4.4	
12.5	Outline measures adopted to avoid or minimise impacts on Aboriginal and non-aboriginal sites of archaeological or anthropological significance.	Section 17.4.5	Appendix Y Appendix AD Appendix AE

Assessment Requirement 13 – Spent (discarded) launch vehicle management

The proposed development has the potential to cause spent (discarded) launch vehicles to accumulate on the seafloor and coastlines.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
13.1	Detail how spent (discarded) launch vehicles and associated debris will be managed, including any retrieval of spent vehicles. Document the likely impacts on the adjacent Marine Park. Take account of State, National and International legal requirements, agreements and conventions (e.g., <i>Commonwealth Environment Protection (Sea Dumping) Act 1981</i> , London protocol etc.).	Section 22.4.1 Section 9 Section 20	Appendix S
13.2	Identify how the movement and accumulation of spent (discarded) launch vehicles and associated debris will be monitored, including any tracking.	Section 22.4.1 Section 20	Appendix S
13.3a	Outline how potential environmental impacts will be monitored, associated with spent (discarded) launch vehicles (including any impacts at the species and ecosystem level) and associated debris.	Section 22.4.1 Section 9 Section 20	Appendix S
13.3b	Propose operational management strategies to minimise potential environmental impacts of spent (discarded) launch vehicles and associated debris, including any retrieval of spent launch vehicles/debris that may wash up onto coastlines.	Section 22.4.1 Section 20	Appendix S

Assessment Requirement 14 – Transport and Access

The proposal requires access for the transportation of infrastructure and construction material to site and ongoing access for materials transport, workforce attendance and public viewing purposes.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
14.1	Undertake a Transport Assessment that involves end-to-end supply chain (input and output) to determine transport impacts (including traffic impacts on the local and arterial road network) and measures to manage and / or mitigate the impacts during the construction and operational phases. The impacts on the arterial and local road networks are to be considered to an extent which encompasses Port Lincoln.	Section 15.4.2 Section 15.4.3	Appendix AA
14.2	Describe the existing transport and access arrangements to and around the site, including access from the arterial and local road network, private roads and gated areas. Detail the road surface treatments and minimum vehicle types for each road and track (e.g., 4WD).	Section 15.4.1	Appendix AA
14.3	Describe and identify on plans, all primary and alternate access roads (including arterial and local roads), tracks and parking proposed for the construction and operational phases.	Section 15.4.2	Appendix AA
14.4	Identify all vehicle types required to utilise the existing and any proposed access routes, specifically the heavy vehicles anticipated. Identify any road surface upgrades required as a result of the development and any heavy vehicle movements (including over-size/over-mass) that require approval through the National Heavy Vehicle Regulator.	Section 15.4.2	Appendix AA
14.5	Identify the anticipated construction and operational vehicle movements per day, making provision for any increases in either phase of development. Include the likely transportation of largescale materials or componentry and method of transport (e.g., heavy vehicles, airfreight, and shipping).	Section 15.4.2	Appendix AA
14.6	Document the anticipated publicly accessible areas, including roads to be utilised, parking and turnaround facilities.	Section 15.4.2 Section 15.4.3	Appendix AA
14.7	Describe the right of way access easements required to facilitate public access to the site for public viewing purposes.	Section 15.4.2 Section 15.4.3	Appendix AA

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
14.8	Identify any potential effects of construction traffic including noise and dust and associated mitigation measures.	Section 15.4.2 Section 15.4.3	Appendix AA
14.9	Describe the location, extent, number and purpose (e.g., commercial or otherwise) of helicopter pads. Identify the potential impacts of helicopter operations with regard to the intended flight paths, downdraft below cruising height, wildlife (e.g., bird and bat strike) and noise implications.	Section 15.4.6	Appendix AA
14.10	Describe the risk involved in transporting materials to the site, including any specific safety and security requirements to be implemented when travelling on roads, including the dangerous goods code requirements.	Section 15.4.2 Section 15.4.5	Appendix AA

Assessment Requirement 15 – Construction and Operational Environmental Management

The proposed development would require a range of impacts to be minimised, mitigated and monitored through an environmental management plan framework across the construction and operational phases.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
15.1	Provide information on any baseline data or monitoring established prior to development on the site. Document the anticipated monitoring on site throughout the construction and operational phases.	Section 23.4.1 Section 7.0 Section 8.0 Section 9.0	Appendix AD Appendix AE Appendix O Appendix P Appendix R Appendix S
15.2	Document the development's construction techniques, methodology, including site preparation works, activities, timeframes and staging (if proposed). Detail the proposed management arrangements to mitigate the negative environmental, public health and amenity impacts and subsequent implementation of these procedures.	Section 23.4.1 Section 23.2	Appendix AD Appendix AE
15.3	Outline the timing of construction and the time of year it is likely to occur.	Section 23.4.1 Section 5.6	Appendix AD Appendix AE
15.4	Describe the soil erosion and drainage management plan to be implemented, including the proposed stormwater management solution. Document any storage, detention and treatment proposed for the development. Surface water and groundwater quality is to be addressed with specific regard to spill containment. Detail the dust management mitigation measures for the construction phase, in particular for the concrete batching plant and site access.	Section 23.4.2 Section 5	Appendix AD Appendix AE Appendix U
15.5	Identify the water sources for construction and operations, in particular for the site amenities, firefighting and concrete batching plant.	Section 23.4.3	Appendix AD Appendix AE
15.6	Identify the location, extent and details of all infrastructure and site services required on site to support the launch operations including, but not limited, to solar arrays, water tanks, propellant storage, generators, lighting rods, anemometer towers, fibre optic and satellite communication systems and high voltage powerlines (including alignment). Detail all utilities to be provided or connecting, including water, gas, electricity, wastewater treatment and disposal, drainage, trenches or conduits.	Section 23.4.4 Section 5.0	Appendix AD Appendix AE Appendix M

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
15.7	Describe the volume and source of cut and fill required for all proposed built form and associated works, including access tracks, launch pads, permanent and temporary structures, and the effect on the natural topography of the site.	Section 23.4.5 Section 5.0 Section 16.0	Appendix AD Appendix AE
15.8	Identify the location, extent and details of any temporary buildings, structures and activities proposed, including but not limited to the concrete batching plant, offices, assembly buildings, laydown areas, fuel and chemical storage locations and access tracks.	Section 23.4.6	Appendix AD Appendix AE Appendix M
15.9	Identify the anticipated launches and activities carried out on site and the operational management regimes for each. The OEMP is to demonstrate mitigation of negative environmental, public health and amenity impacts. The plan is to collate the key operational information for the project, including hazard and risk documentation, waste and debris procedures, fire and explosion response strategy, noise and vibration monitoring and transport and access.	Section 23.4.1	Appendix AD Appendix AE
15.10	Prepare a waste management and minimisation plan which documents all waste streams during construction and operation, identifies the location of waste storage areas and disposal facilities. Identify the opportunities for recycling and reuse of equipment and componentry.	Section 23.4.7	Appendix AD Appendix AE
15.11	Document the site rehabilitation and decommissioning strategy for all temporary and permanent elements.	Section 23.4.8	Appendix AD Appendix AE

Assessment Requirement 16 – Land Use Effects

The proposal will have an impact on landowners and surrounding uses, in the immediate and long term.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
16.1	Identify the existing land uses of the subject site and surrounds (e.g., coastal conservation, tourism, mining and petroleum related activities).	Section 14.4.1	
16.2	Describe the new land uses proposed for the subject site (e.g., launch complex, helicopter landing pads, electricity generation etc.).	Section 14.4.2 Section 5.0	
16.3	Identify the types and extent of land tenure in broad terms, including reference to Crown Land. Outline any implications for Native Title and Native Vegetation Heritage Agreements.	Section 14.4.3 Section 7.0	Appendix M Appendix Y
16.4	Identify the level of interference to landowners, land uses and activities in the immediate and surrounding environs.	Section 14.4.4 Section 8.0	Appendix Z
16.5	Evaluate the change in land use, resulting in a loss of coastal conservation area, visual and amenity impacts being introduced and impact on mining and petroleum related activities.	Section 14.4.5 Section 14.4.1 Section 8.0	Appendix Z
16.6	Outline any mitigation measures to alleviate or avoid impacts on land owners and land uses.	Section 14.4.6 Section 8.0 Section 16	Appendix AD Appendix AE

Assessment Requirement 76 – Planning and Environmental Legislation and Policies

A range of planning, environmental and space related statutory requirements would need to be met for the construction and operation of the proposed development.

NO	ISSUE/IMPACT	EIS REFERENCES	APPENDIX REFERENCES
17.1	Describe the launch complex and site activities in terms of the consistency with the relevant Development Plans, Planning and Design Code, the Planning Strategy and the State Planning Policies.	Section 19.4.1	
17.2	Describe the development in terms of its consistency with relevant State and Commonwealth legislation and initiatives.	Section 19.4.1	
17.3	Provide information on the operational requirements to be met with regard to the authorised space activities under the <i>Space (Launches and Returns) Act 2018</i> and compliance with any relevant national and international obligations.	Section 19.4.2	
17.4	Identify any potential implications of the proposed launch complex for International Conventions and Agreements to which the Commonwealth of Australia is a party.	Section 19.4.2	
17.5	Provide information on activities which will require a licence pursuant to the <i>Environment Protection Act 1993</i> .	Section 19.4.1	
17.6	Provide information on the operational requirements to ensure compliance with the <i>Environment Protection Act 1993</i> and associated Air Quality and Water Quality policies.	Section 19.4.1	