

## Flood hazard mapping and assessment project update – December 2021

The Attorney-General's Department and the State Planning Commission is undertaking a flood hazard mapping and assessment project commencing in November 2020 – funded by a \$3 million COVID-19 stimulus grant.

The project is split into three key stages, including procurement of new and enhanced flood mapping, and amendments to the Planning and Design Code to introduce the new flood hazard mapping and land use policy.

### Stage 1 - Flood Hazard Mapping Update Code Amendment

On 28 October 2021 the Minister for Planning and Local Government approved the initiation of a Code Amendment to the spatial extent of the Flood Hazards Overlay by the Chief Executive of the Attorney General's Department.

Within the scope of this proposed Code Amendment is the inclusion of updated flood mapping for the following councils:

Council	Area
Burnside Council	1 <sup>st</sup> to 3 <sup>rd</sup> Creek catchment
Charles Sturt, Prospect and Port Adelaide Enfield Councils	Barker Inlet catchment
Playford and Gawler Councils	Smith Creek catchment
Clare Valley and Gilbert Valley Councils	Auburn township
Mitcham Council	Sturt River urban catchment, McLaren Street catchment, Brownhill Keswick Creek urban catchment
Port Lincoln Council	Port Lincoln
Unley Council	Unley Council Area
Naracoorte Lucindale Council	Naracoorte township and surrounds

The Code Amendment proposes to remove the Evidence Required Overlay in rural and escarpments areas in the cities of Playford, Mitcham, Burnside, Marion, Onkaparinga and Port Lincoln and the whole of Mount Gambier. The Hazards (Flooding) Overlay is proposed to apply in areas where regional coarse 5m scale mapping combined with watercourse data shows there is evidence of flooding.

The Code Amendment also proposes to remove the Evidence Required Overlay in the outback (non-council areas) of South Australia, and insert the Hazard (Flooding) Overlay where regional coarse 30 m scale mapping of a 0.5% combined with watercourse data shows evidence of flood risk.

This Code Amendment is planned to go to consultation in the first quarter of 2022.

## Stage 2 - Procurement of Flood Mapping Products

### Enhanced Flood Studies

Enhanced flood studies are underway in 15 metropolitan and 9 outer metro/regional areas (see table below):

Metropolitan areas	Outer metro/regional areas
<ul style="list-style-type: none"> <li>- Lower River Torrens</li> <li>- Lower Sturt River</li> <li>- Lower Onkaparinga River</li> <li>- Barker Inlet</li> <li>- Cobbler Creek</li> <li>- Lefevre Peninsula</li> <li>- Gawler River</li> <li>- Upper and Lower Little Para</li> <li>- Numbered Creeks (1<sup>st</sup> – 3<sup>rd</sup> creek) in Campbelltown, Tee Tree Gully, Burnside and Norwood</li> <li>- Marion and Holdfast Bay Surface Water</li> <li>- Adams Creek</li> <li>- Little Para River (lower and upper)</li> <li>- West Lakes Surface Water</li> <li>- River Torrens</li> <li>- Smith Creek</li> </ul>	<ul style="list-style-type: none"> <li>- Nuriootpa</li> <li>- Victor Harbor</li> <li>- Balaklava to Pt. Wakefield</li> <li>- Pt. Lincoln</li> <li>- Light River</li> <li>- Gawler River</li> <li>- Naracoorte</li> <li>- Clare and Gilbert Valley townships</li> <li>- Kadina</li> </ul>

### New Flood Studies

9 new flood studies are also being undertaken:

New flood study areas	Consultant
Fleurieu Peninsula townships i.e. Yankalilla, Carrickalinga, Normanville, 2nd Valley	HARC
Upper Torrens River i.e. Birdwood	HARC
Mt Barker	Southfront
Wallaroo	Southfront
Strathalbyn	Southfront

New flood study areas	Consultant
Bremer River at Langhorne Creek	Southfront
Upper Onkaparinga including Adelaide Hills townships i.e. Nairne, Littlehampton	Southfront
Goolwa	Stantec
Numbered Creeks (4 <sup>th</sup> to 6 <sup>th</sup> Creek) that flow into River Torrens	Tonkin

### New LiDAR

To improve the accuracy of flood modelling new LiDAR (light detection and ranging) data in the form of a 0.5 metre digital elevation model has been captured for:

- Clare and Gilbert Valley townships
- Barossa, Middle Beach to Barossa
- Upper Torrens River
- Adelaide Hills including Mt. Barker, Strathalbyn and Nairne
- Upper Onkaparinga catchment area including Bremer Flat and Langhorne Creek
- Goolwa to Port Elliot
- Townships in the Fleurieu Peninsula.

This data will be made publicly available by the Department for Environment and Water through the [Elvis Elevation Foundation Spatial Data platform](#) (Elvis) in 2022.

### Regional Course Data

Regional Coarse Data of a 5 m and 30 m scale has been purchased by JBA and Ambiental. This data will be considered in areas where no detailed flood study has been completed.

## Stage 3 – Statewide Flood Hazard Code Amendment

The State Planning Commission will consider initiating the Statewide Flood Hazard Code Amendment in the first half of 2022. This amendment will utilize the mapping products outlined above for accurately applying flood policy across the state.

In addition, the flood policy will be reviewed. This policy will be tested against the outcomes of the mappings and workshopped with councils in 2022.

### For more information

Visit [Hazard Mapping Project](#) and [Code Amendments](#) on the PlanSA website.