Agenda Item:

8.2 Late Report

Committee:

Board

Meeting Date:

20 October 2022

Title:

Gawler River Flood Mitigation, Department for Environment, and

Water

## Recommendation: NIL

This report to be considered within discussion and consideration of Agenda item 8.2.

This late report provides further information to Agenda item 8.2, of the 20/10/2022 GRFMA meeting, regarding a proposed work plan and actions to be undertaken in the Gawler River Flood Mitigation Business Case being facilitated by the Department for Environment and Water (DEW).

A gap analysis has now been undertaken between the GRFMA Gawler River Stormwater Management Plan (SMP) and the Gawler River Flood Mitigation Business Case.

The gap analysis provides:

- Key components of the Gawler River Stormwater Management Plan (SMP).
- · Relationship to the Business Case.
- What's required for the Business Case Gaps between the SMP and Business Case (i.e., business case scope of work.)

Ms. Katharine Ward, Project Manager Gawler River Flood Management Climate Change, Coast & Marine Branch, Environment, Heritage & Sustainability Division, Department for Environment and Water will attend the meeting to talk to both Agenda item 8.2 and the 8.2 late report.

See attachment for the gap analysis document.

## Gawler River Flood Management Business Case Gap analysis and proposed scope of work (v1, 17 October 2022)

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Key components of the Gawler River stormwater management plan (SMP)	Relationship to the Business Case	What's required for the Business Case	*note this includes actioning recommendations from the ISA Gate 1 independent review*
Information compilation	Critical foundational information	The business case work should ensure	Technical assessments could include:
Assessment of the study area (e.g.	Critical foundational information	sufficiently robust current flood modelling is undertaken to quantify the option	<ul> <li>Alignment of flood models with flood hazard overlay work by PLUS</li> <li>Impact of the North Para River Flood Mitigation Dam on increased duration of</li> </ul>
environmental values, socio-cultural values, climate change)		benefits and costs. And, long term ownership of the model needs agreeing.	higher Gawler River levels (required for levee seepage analysis and environmental impacts)
Flood (hydraulic) modelling	Critical foundational information#		<ul> <li>North Para Flood Mitigation Dam Break Assessment for height increases</li> <li>Enough model runs for damage curves and full economic assessment</li> </ul>
Stormwater management objectives and	Sense check between the SMP and what's	The 'case for change', strategic alignment,	Impact/Benefits/Viability of different dam height increases (5,10 & 15m)     Existing layour risk accompant (i.e. what happens if they have a cap in
targets	in the Options Analysis	and benefits, objectives and outcomes were set out in the Options Analysis and only need be refined in the Business Case	Existing levees his assessment (i.e. what happens in they break or have a gap in them?)     Impacts/Benefits of implementing mitigation measures in stages
Flood risk reduction assessment	Sense check between this assessment in the SMP and what's presented in the Options Analysis. Detailed assessments in the business case work will build on this.	Rigorous economic assessment - including social, environment, sustainability, and financial detail of options progressed from the Options Analysis	<ul> <li>Climate Change Hood levels (this may be covered by the SMF?)</li> <li>North Para Flood Mitigation Dam Functional Design &amp; Cost Estimate</li> <li>Increase of outlet velocity from North Para Flood Mitigation Dam Raising - geomorphology and ecological impacts</li> <li>Northern floodway functional design and cost estimate (construction, companying assets)</li> </ul>
Presentation of stormwater/ flood management options	Sense check along the way/ update these in the final SMP (as relevant) pending	Demonstrate the viability and value of the options assessed; recommend an option	<ul> <li>Planning options for land access/ asset management</li> <li>Economic benefits and value opportunities outside of flooding</li> </ul>
	outcome of further pushess case work	of implementation	Flood damage costs/ avoided damages updated
Stakeholder engagement	Constituent councils and key stakeholders engaged along the way and insights shared.	Demonstrated support and agreement from key stakeholders for the project/s and that they have confidence that the project/s will meet their needs and requirements.  And, the proposed asset owner and operator's requirements have been addressed.	Talk to the Australian Government about funding potential     Talk with landholders in the Northern Floodway alignment (e.g. find out how they use of floodway land and what assets do they have there now)     Continue to talk with landholders along the Gawler River with existing levees     Talk with landholders potentially impacted by a dam expansion     More social research     Potential to partner on raising flood awareness (e.g. SAFECOM, DRA)
Implementation plan	Sense check/ update this in the final SMP (as relevant) pending outcome of further business case work	Includes: a funding plan; preferred delivery and procurement approach; and how the project/s will be managed (incl. internal and external authority and support, risk management, change management)	Implementation planning could include:  Review project governance for next phase of the project  Prepare a change management plan  Prepare a risk management plan  Commence market sounding  Provisionally agree a proposed funding model
SMP	SMP finalised at the same time as the Business Case is finished		Business Case report and Infrastructure SA (ISA) Gate 2 Review