



Australia's National
Science Agency

GISERA | Gas Industry Social and Environmental Research Alliance

Progress report

Cooper Creek flood modelling scenarios



Australian Government
Department of Industry, Science,
Energy and Resources



Supported by
Government of
South Australia



Progress against project milestones

Progress against milestones/tasks are approved by the GISERA Director, acting with authority in accordance with the [GISERA Alliance Agreement](#).

Progress against project milestones/tasks is indicated by two methods: [Traffic light reports](#) and descriptive [Project schedule reports](#).

1. Traffic light reports in the Project Schedule Table below show progress using a simple colour code:

- **Green:**

- Milestone fully met according to schedule.
- Project is expected to continue to deliver according to plan.
- Milestone payment is approved.

- **Amber:**

- Milestone largely met according to schedule.
- Project has experienced delays or difficulties that will be overcome by next milestone, enabling project to return to delivery according to plan by next milestone.
- Milestone payment is withheld.
- Milestone payment withheld for second of two successive amber lights; project review initiated and undertaken by GISERA Director.

- **Red:**

- Milestone not met according to schedule.
- Problems in meeting milestone are likely to impact subsequent project delivery, such that revisions to project timing, scope or budget must be considered.
- Milestone payment is withheld.
- Project review initiated by GISERA Director.

2. Progress Schedule Reports outline task objectives and outputs and describe, in the 'progress report' section, the means and extent to which progress towards tasks has been made.

Project schedule table

TASK NUMBER	TASK DESCRIPTION	SCHEDULED START	SCHEDULED FINISH	COMMENT
1	Define scenarios	June 2022	Sept 2022	Completed
2	Flood modelling	July 2022	June 2023	
3	Project reporting	April 2023	March 2024	
4	Communicate findings	July 2022	March 2024	

Project schedule report

TASK 1: Define scenarios

BACKGROUND

The project builds on existing flood inundation model developed for the Geological and Bioregional Assessment Program. The size and complexity of the flood inundation models mean that stakeholders are unable to access the necessary computing resources to run their own scenarios. Prior to any stakeholder workshops, an initial work plan, ethics approval and data management plan will be completed.

TASK OBJECTIVES

The objective of the initial stakeholder workshop is to engage with stakeholders to define 2-3 flood modelling scenarios and test visualisation options.

TASK OUTPUTS AND SPECIFIC DELIVERABLES:

Work plan, ethics approval, stakeholder workshop, list of modelling scenarios, visualisation preferences and data management plan.

PROGRESS REPORT

This milestone is complete.

The project team obtained ethics approval (106/22) before speaking with stakeholders to prioritise flood modelling scenarios. Initial conversations with industry representatives from two industry stakeholders, focused on understanding how the flood modelling scenarios could best inform their day-to-day operations. Flood likelihood mapping under current and future climate inflow scenarios was a priority for industry.

A workshop with a broader range of stakeholders is planned in the future to explore how to best communicate and visualise the flood model outputs. Future engagements are planned with government regulators and science experts to further refine priority flood model outputs and visualization preferences from these 2 climate scenarios.

Variations to Project Order

Changes to research Project Orders are approved by the GISERA Director, acting with authority, in accordance with the GISERA Alliance Agreement. Any variations above the GISERA Director's delegation require the approval of the relevant GISERA Research Advisory Committee.

The table below details variations to research Project Order.

Register of changes to Research Project Order

DATE	ISSUE	ACTION	AUTHORISATION

As Australia's national science agency and innovation catalyst, CSIRO is solving the greatest challenges through innovative science and technology.

CSIRO. Unlocking a better future for everyone.

Contact us

1300 363 400
+61 3 9545 2176
csiro.au/contact
csiro.au

For further information

1300 363 400
gisera.csiro.au

GISERA is a collaboration between CSIRO, Commonwealth and state governments and industry established to undertake publicly-reported independent research. The purpose of GISERA is to provide quality assured scientific research and information to communities living in gas development regions focusing on social and environmental topics including: groundwater and surface water, greenhouse gas emissions, biodiversity, land management, the marine environment, and socio-economic impacts. The governance structure for GISERA is designed to provide for and protect research independence and transparency of research.