



# GISERA

Gas Industry Social and  
Environmental Research Alliance

## Project Order, Variations and Research Progress

Project Title: Groundwater baseline study of the Canning Basin

This document contains three sections. Click on the relevant section for more information.

Section 1: [Research Project Order as approved by the GISERA WA Regional Research Advisory Committee before project commencement](#)

Section 2: [Variations to Project Order](#)

Section 3: [Progress against project milestones](#)





**GISERA**  
Gas Industry Social and  
Environmental Research Alliance

# 1 Original Project Order



# Project Order

Proforma 2020

## 1. Short Project Title

Groundwater baseline study of the Canning Basin

Long Project Title                      Groundwater baseline study of the Canning Basin

GISERA Project Number              W.21

Proposed Start Date                    15/07/2020

Proposed End Date                      28/02/2021

Project Leader                            Olga Barron

## 2. GISERA Region

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Queensland      | <input type="checkbox"/> New South Wales                     | <input type="checkbox"/> Northern Territory |
| <input type="checkbox"/> South Australia | <input checked="" type="checkbox"/> <b>Western Australia</b> | <input type="checkbox"/> Victoria           |

## 3. GISERA Research Program

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> <b>Water Research</b> | <input type="checkbox"/> GHG Research                             | <input type="checkbox"/> Social & Economic Research |
| <input type="checkbox"/> Biodiversity Research            | <input type="checkbox"/> Agricultural Land<br>Management Research | <input type="checkbox"/> Health Research            |

## 4. Project Summary

### Objective

This project will explore and summarise the current state of knowledge related to groundwater systems in the Canning Basin to identify requirements for future groundwater systems investigations, characterisation and monitoring. While numerous groundwater studies have previously occurred in parts of the Canning Basin generating knowledge about the groundwater resource potential of different aquifers, their geographic locations are highly dispersed, and their findings remain segregated. It is timely to conduct an inventory of these studies and their findings to understand the current status of groundwater knowledge for the entire basin before any further development and anthropogenic influences occur.

### Description

#### *Background*

The Canning Basin, in northwest Western Australia, is a large Phanerozoic intracratonic basin with an onshore area of over 400000 km<sup>2</sup> (Figure 1). The northern part of the basin is dominated by the Fitzroy Trough, a major fault-bounded graben containing more than 18 km of sediment deposited during several cycles of marine transgression and regression which occurred between the Early Ordovician and Cretaceous. Southern areas consist mainly of the Kidson and Willara Subbasins, in which the sedimentary sequence is thinner (up to 5 km).

The Canning Basin is not only the largest sedimentary basin in Australia, aside from the Eromanga Basin (sub-division of the Great Artesian Basin), it also contains by far the largest potential opportunity for developing groundwater resources for use by shale gas and other industries (Figure 1). However, given the extremely large scale of the basin, development of such groundwater resources is uneconomic due to vast distances from the groundwater resources to infrastructure and population centres where water is required. Furthermore, exploration and investigations across large parts of the basin have to date primarily focussed on the geology and its prospectivity for oil and gas as opposed to groundwater investigation and quantification.

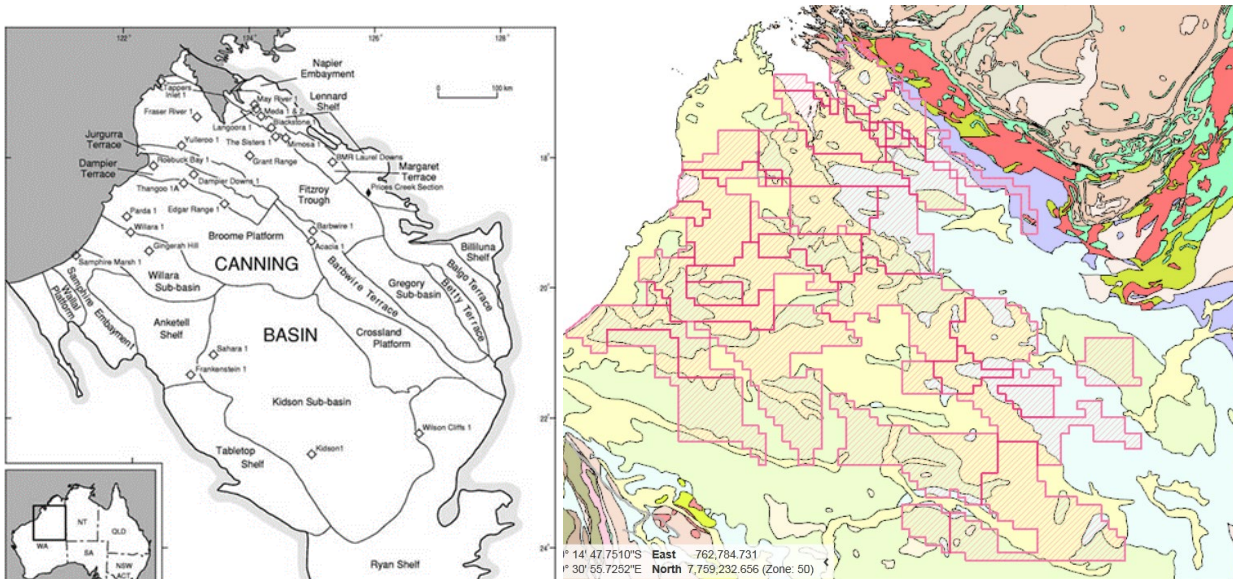


Figure 1 Canning basin elements (from Geoscience Australia) and a map of lease blocks in the Canning Basin WA DMP (2014). Petroleum titles from GSWA online map, overlain on bedrock geology.

The regional geology and structure of the basin has been extensively reviewed and summarised in numerous publications by the Western Australia government Department of Mines and Petroleum (Dent, 2016; Parra-Garcia et al., 2014; Playford et al., 2009; Mory 2010). In addition, further improving the current understanding of the basin’s groundwater resources is important given the basin encompasses one of the driest parts of the Australian continent and is subject to climate extremes.

Investigation of groundwater resources in the West Canning Basin began in the late 1970s where an estimated 50 GL/yr yield of groundwater was discovered in the western region (Leech, 1979). In the early 1990s, Smith (1992) collated and reviewed hydrogeological information for the north-eastern part of the Canning Basin (Fitzroy Trough) where he estimated both storage and recharge for key aquifers. Storage estimates for the Broome Sandstone, Wallal Sandstone and Poole Sandstone were found to be significant, 60,000, 200,000 and 400,000 gigalitres respectively each. Estimates for annual recharge were also found to be significant for both the Broome Sandstone and Wallal Sandstone, 80 and 35 GL/yr respectively. Information for the Wallal Sandstone was also collated by Haig (2008) and found the aquifer to have a large storage and superior water quality (acceptable for domestic purposes) compared with the overlying aquifers of the region. Furthermore, groundwater storage in this aquifer was found to be larger than any other known aquifer within the Pilbara and West Kimberly Regions of WA. In the mid-2000s, Lindsay and Commander (2005) undertook a hydrogeological assessment of the Fitzroy Alluvium along the Fitzroy River. The assessment estimated that the alluvium had the potential to support groundwater development in the order of 200 GL/yr.

More recently, aquifers in the coastal part of the Broome Platform particularly the Broome Sandstone aquifer in LaGrange has received significant attention due to the steady increase of irrigated agriculture in the region. Currently 50 GL/yr of groundwater is allocated for use in irrigation from the Broome Sandstone aquifer that coincides with an area encompassing about 36,000 km<sup>2</sup>. The water allocation plan for the LaGrange area has been underpinned by airborne geophysics, extensive field investigations, desktop analyses and modelling to conceptualise the groundwater flow systems and quantify the water balance and evaluate the available groundwater for use (Annetts et al., 2017; Harrington, 2015; Harrington and Harrington, 2016; Paul et al., 2013; Paul et al., 2019).

The most recent work on groundwater in the Canning Basin comes from a comprehensive field, desktop and modelling study by Taylor et al., 2018a, 2018b and Dawes et al., 2018 as part of the Northern Australia Water Resource Assessment project. The study identified the interconnected Grant Group and Poole Sandstone as the most prospective aquifers in the Fitzroy Trough and estimated it was possible to develop up to 120 GL/yr of groundwater in the long term (Taylor, 2018a). In addition, the Devonian Reef Complex, Erskine and Wallal Sandstones were also identified as having good potential for future groundwater development, but that detailed field investigations and modelling would be needed to better evaluate the opportunities and risks (Taylor, 2018b).

### *Project outline*

This project will develop a framework defining the scope of and data requirement for “groundwater baseline characterisation”, including hydrogeological setting, groundwater balance, flow and interaction between aquifers, groundwater quality, environmental function and current use.

The framework will guide data collection and knowledge gap analysis. It is likely that the following type of data will be considered:

- Geological and geophysical data, including local and national products.
- Groundwater infrastructure and associated data (i.e. water levels, water quality, recharge and aquifer storage estimates, bore yield, chemistry and isotopes, lithology and stratigraphy, aquifer attribution) as well as previous groundwater systems conceptual and numerical models.
- Surface water features (i.e. perennial and ephemeral watercourses, wetlands, lakes, springs and waterholes), some of which can be associated with groundwater dependent assets (as below).
- Groundwater dependent assets (i.e. surface water features, vegetation and the marine environment).
- Current water uses as well as ecological and cultural values with an emphasis on the social aspects and those which are culturally significant for Aboriginal and Torres Strait Islander people in the Canning

Basin, which are closely linked to the groundwater dependant ecosystems and water dependant asset (as above).

Within the framework, the project team will source, systematically review and evaluate data, currently available to directly or indirectly characterise groundwater systems in the Basin. It is anticipated that the data are available from various sources, at various scales and uncertain quality and will require quality control and further data integration.

### **Need & Scope**

Groundwater resources across the Canning Basin are a critical requirement for local communities, culturally significant for Aboriginal and Torres Strait Islander people in the Canning Basin and industries, existing or planned (including the agriculture and energy sectors) to explore for and in the future develop oil and gas resources within their permit areas. The abstraction of these groundwater resources throughout the lifetime of the exploration and resources development phases for onshore gas will cause various spatial and temporal hydrological changes. Given that petroleum titles occur within the Canning-Kimberley proclaimed groundwater area, licenses to take water from aquifers at any given location will be required by energy operators. The sustainable development of water resources associated with unconventional oil and gas development was one of the largest concerns raised by various stakeholders to the recent Independent Scientific Panel Inquiry into Hydraulic Fracture Stimulation (ISP, 2018). Therefore, any groundwater resource development will be heavily scrutinised and will require robust hydrogeological assessments and information. The key metric assessed as part of the application process is the risk that cumulative abstraction of groundwater over time may impact existing and future users, cultural values of Aboriginal and Torres Strait Islander people in the Canning Basin, the water dependent environment and the water balance of the resource. Prior to evaluating these impacts, a sound understanding of the hydrogeological framework including structural features, the nature of key groundwater flow processes, initial water balances and the occurrence and location of Groundwater Dependent Ecosystems (GDEs), existing groundwater users (all forming the baseline conditions) and culturally significant groundwater dependent assets for Aboriginal and Torres Strait Islander people is required.

### **Methodology**

The project will be undertaken in three stage:

Stage 1: Development of the framework for groundwater baseline characterisation

Stage 2: Data collection and integration

Stage 3: Reporting



### **Task 1 Framework for groundwater baseline characterisation**

During the initial stage of the project, the framework for the groundwater baseline characterisation will be developed, based on the regulators' requirements and best practice established elsewhere (including previously undertaken assessments with CSIRO, such as Northern Australia Water Resources Assessment, including in WA, Bioregional Assessment and Geological and Bioregional Assessment programs in parts of eastern Australia). The framework will define the data requirement for the effective baseline characterisation and assist in data collection process as well as data gap analysis.

### **Task 2 Data collection and integration**

The project will undertake a literature, data review and desktop assessment of existing geological and hydrogeological data and evaluate their value in terms of groundwater resource characterisation.

During the project the project team will explore the data availability, engaging with various data custodians, which include (among others):

- Geological Survey of Western Australia (GSWA), which set up a project focusing on the Canning Basin.
- Geoscience Australia (GA), which maintain national geological/geophysical and hydrogeological database. The Basin also covered by the GA recent exploration program for the Northern Australia.
- Department of Mines, Industry Regulation and Safety (DMIRS), the main regulator for the mining and energy development in the region, also maintaining WA specific information on the various aspects of the WA resource sector.
- Department of Water and Environmental Regulation (DWER), the main water and environmental regulator, who led investigation in groundwater resources in the west and north of the Basin.
- Department of Prime Industries and Regional Development (DPIRD), the main regulator for regional development, including agriculture, who led much work on the water resource assessment for the agriculture in the west and north of the Basin.
- Western Australian Environmental Protection Authority (EPA) who consider environmental impact assessment (EIA) for energy and water development projects in the Canning Basin.
- CSIRO through the Northern Australian Water Resource Assessment project (NAWRA).
- Other CSIRO research particularly from CSIRO Energy, supporting gas sector development, including in the Canning Basin.
- Gas, petroleum and minerals industries, which may have acquired some local data and the project team will explore if an access for such data may be granted.

The existing data will be compiled and where possible, analysed and integrated.





### Tasks 3: Reporting

The project will produce a report as well as database, gathered during the project life. The report will summarise the main findings, critical gaps in current knowledge and provide initial recommendations for future work. This research will also determine what further baseline work is required to build a more comprehensive set of baseline measurements in this region where for example, confidential reports and data cannot be initially obtained during the life of this project.

Thus, this project may advise on:

1. Additional geological, geophysical and groundwater investigations including installation of infrastructure required for
  - a. groundwater systems characterisation;
  - b. future groundwater level and quality monitoring;
  - c. both including for the location of significant groundwater dependent assets (GDEs, cultural significance, current groundwater users).
2. Future groundwater field program for
  - a. groundwater sampling for hydrogeochemistry and environmental tracers;
  - b. quantitative characterisation of groundwater flow processes including recharge, throughflow, discharge, inter-aquifer connectivity and groundwater–surface water connectivity (crucial for groundwater system conceptualisation).
3. Modelling of the water balance and potential cumulative impact risk assessment in areas where data is sufficient to support these recommendations.
4. The future research directions, which will quantify any cultural importance of groundwater resources.

## 5. Project Inputs

### Research

The project will explore availability of data, required for baseline condition characterisation, and where possible data integration. The project activities aiming to meet the project objectives, include

1. Baseline review and validation of all available data to summarise current level of geological and hydrogeological knowledge. This includes tabulating data but also producing multiple two dimensional geological and hydrogeological cross sections and spatial maps of key hydrogeological data (surface water features, soil types, ground surface elevation, groundwater quality and chemistry, groundwater level, bore yields, hydraulic properties where possible). Geophysics will also be incorporated to provide another line of spatial evidence for the layering and geometry of geological units. Data sources are likely to include:
  - a. DMIRS publicly available data via various online platforms such as GeoVIEW, including data from Western Australian Mineral Exploration reports (WAMEX), Western Australian Petroleum and Geothermal Information Management System (WAPIMS) and the Geological Survey of Western Australia (GSWA) geology and structure data sets and reports specific to the Canning Basin.
  - b. DWERs publicly available groundwater data including bore locations, stratigraphy, groundwater level, bore yield, chemistry and water quality) via the online Water Information Reporting (WIR) data portal and spatial data download tool.
  - c. Geophysical survey data available through Geoscience Australia (GA) and company or consultancy reports such as regional magnetics, airborne electromagnetic (AEM) and seismic.
  - d. Additional relevant data published in hydrogeological assessment reports produced by consulting firms.
  - e. Availability of additional hydrogeological and geophysical data and reports from industry operators will be explored.
2. Producing estimates of gross recharge rates using the Australian Water Resources Assessment Landscape model (AWRA-L) to derive recharge fluxes for the important hydrogeological units hosting. This starting point for deriving initial components of the water balance will be important for understanding the scale of volumetric fluxes into and out of key aquifers. Data sources are likely to include:

- a. Deep drainage estimates across the study area from the Bureau of Meteorology AWRA-L model.
  - b. Baseline gross recharge estimates across the study area from the one-dimensional WAVES soil-vegetation-atmosphere transfer model.
  - c. Spatial mapping of ground surface elevations, soil types and depth of regolith cover, e.g. the 1 second Shuttle Radar Topography Mission (SRTM) Digital Elevation Model available from Geoscience Australia (GA); the Soil and Landscape Grid of Australia (SLGA) available through the Terrestrial Ecosystem Research Network (TERN), etc
3. Spatial mapping defining 'potential' GDEs, which may be sourced from GA or BoM.
  4. Other groundwater dependent assets culturally significant for Aboriginal and Torres Strait Islander people in the Canning Basin
  5. Identifying and summarising key hydrogeological data and knowledge gaps.
  6. Providing recommendations to guide planning for future groundwater resource investigations.

### Resources and collaborations

Researcher	Time Commitment (project as a whole)	Principle area of expertise	Years of experience	Organisation
Olga Barron	20 days	Groundwater	>30 year	CSIRO Land and Water
Andrew Taylor	20 days	Groundwater	10 Year	CSIRO Land and Water
Tania Ibrahim	15 days	GIS Analyst	10 year	CSIRO Mineral Resources
Shane Mule	10 Days	Geophysicist	10 year	CSIRO Mineral Resources

Subcontractors (clause 9.5(a)(i))	Time Commitment (project as a whole)	Principle area of expertise	Years of experience	Organisation
Nil				

### Budget Summary

Source of Cash Contributions	2020/21	2021/22	2022/23	% of Contribution	Total
GISERA	\$71,756	\$0	\$0	75%	\$71,756
- Federal Government	\$71,756	\$0	\$0	75%	\$71,756
<b>Total Cash Contributions</b>	<b>\$71,756</b>	<b>\$0</b>	<b>\$0</b>		<b>\$71,756</b>
Source of In-Kind Contribution	2020/21	2021/22	2022/23	% of Contribution	Total
CSIRO	\$23,919	\$0	\$0	25%	\$23,919
<b>Total In-Kind Contribution</b>	<b>\$23,919</b>	<b>\$0</b>	<b>\$0</b>	<b>25%</b>	<b>\$23,919</b>

## 7. Project Impact Pathway

Activities	Outputs	Short term Outcomes	Long term outcomes	Impact
Framework development	The framework for the groundwater baseline characterisation	The framework will define the data requirement for the effective baseline characterisation and assist in data collection process as well as data gap analysis.	The project will improve Industry's knowledge and provide unconventional gas guidance on groundwater data requirement and data availability for the Basin	<p>Environmental Impact - <i>Potential to guide the future planning, investment and management of water resources and infrastructure to aid in the maintenance of current water security for existing users and the environment.</i></p> <p>Economic Impact - <i>will guide and underpin future planning and investment by both the regulator and industry in water infrastructure and monitoring.</i></p>
Data collation	Database of information suitable for the groundwater characterisation in the Basin	Database provides a knowledge base to guide future planning and investment in water infrastructure by both the water regulator and proponents in industry		
Reporting	The report	Summary of the main finding, critical gaps in current knowledge and provide initial recommendations for future work	The project will inform Governments, regulators & policy-makers on issues regarding limitation and opportunities for groundwater resources development, informing policy & legislative framework for the gas industry	

## 8. Project Plan

### Project Schedule

ID	Activities / Task Title (should match activities in impact pathway section)	Task Leader	Scheduled Start	Scheduled Finish	Predecessor
<b>Task 1</b>	Framework development	Olga Barron	15/07/2020	01/09/2020	None
<b>Task 2</b>	Data collation	Andrew Taylor	15/07/2020	23/12/2020	None
<b>Task 3</b>	Reporting	Olga Barron	04/01/2021	25/02/2021	Task 1 and 2

## Task description

### Task 1

**TASK NAME:** Framework development

**TASK LEADER:** Olga Barron

**OVERALL TIMEFRAME:** 15 July to 1 September 2020 (1.5 months)

**BACKGROUND:** The aim of the project is to explore and summarise the current state of knowledge related to groundwater systems in the Canning Basin and to identify needs for future groundwater systems investigations, characterisation and monitoring.

**TASK OBJECTIVES:** Develop a framework to guide data collation

**TASK OUTPUTS AND SPECIFIC DELIVERABLES:** The framework for the groundwater baseline characterisation will be developed, based on the regulators' requirements and best practice. The framework will define the data requirement for the effective baseline characterisation and assist in data collection process as well as data gap analysis.

### Task 2

**TASK NAME:** Data collation

**TASK LEADER:** Andrew Taylor

**OVERALL TIMEFRAME:** 15 July to 23 December 2020 (5.5 months)

**BACKGROUND:** Within the framework, the project team will source, systematically review and evaluate data, currently available to directly or indirectly characterise groundwater systems in the Basin. It is anticipated that the data are available from various sources, at various scales and uncertain quality and will require quality control and further data integration.

**TASK OBJECTIVES:** Collate available data suitable for the groundwater characterisation in the Basin

**TASK OUTPUTS AND SPECIFIC DELIVERABLES:** Review and collation of the available data, suitable for groundwater resource characterisation.

### Task 3

**TASK NAME:** Reporting

**TASK LEADER:** Olga Barron

**OVERALL TIMEFRAME:** 1 January to 25 February 2021 (2 months)

**BACKGROUND:** The project will produce a report as well as data, gathered during the project life

**TASK OBJECTIVES:** Summarise the data availability and gaps

**TASK OUTPUTS AND SPECIFIC DELIVERABLES:** The report will summarise the main finding, critical gaps in current knowledge and provide initial recommendations for future work.



### Project Gantt Chart

			2020-2021							
Task	Task Description	Task Leader	15-Jul-20	Aug-20	Sept-20	Oct-20	Nov-20	Dec-20	Jan-21	28-Feb-21
1	Framework development	Olga Barron								
2	Data collation	Andrew Taylor								
3	Reporting	Olga Barron								

## 9. Technical Reference Group

The project will establish a Technical Reference Group (TRG) aimed at seeking peer-to-peer technical advice on contextual matters and to discuss research needs as well as outputs as the project progresses. The TRG will most likely be composed of representatives from:

- Geological Survey of Western Australia (GSWA)
- Geoscience Australia (GA)
- Department of Mines, Industry Regulation and Safety (DMIRS)
- Department of Water and Environmental Regulation (DWER)
- Department of Prime Industries and Regional Development (DPIRD)
- Gas, petroleum and minerals industries
- Kimberly Land Council
- Western Australian Farmers Federation

## 10. Communications Plan

Stakeholder	Objective	Channel (e.g. meetings/media/factsheets)	Timeframe (Before, during at completion)
Regional Community/Wider public, government and industry	To communicate project objectives and key messages from research	Fact sheets (including development of one at commencement of project which will explain in plain English the objective of the project and another at project completion).  Project progress reported on GISERA website to ensure transparency for all stakeholders including regional communities.	At project commencement and at project completion.  Periodically
Regional Community/Wider public, Government, Scientific community and Industry	To report on key findings	Final Report	At completion



## 11. Budget Summary

Expenditure	2020/21	2021/22	2022/23	Total
Labour	\$95,175	\$0	\$0	\$95,175
Operating	\$500	\$0	\$0	\$500
Subcontractors	\$0	\$0	\$0	\$0
<b>Total Expenditure</b>	<b>\$95,675</b>	<b>\$0</b>	<b>\$0</b>	<b>\$95,675</b>

Expenditure per Task	2020/21	2021/22	2022/23	Total
Task 1	\$16,006	\$0	\$0	\$16,006
Task 2	\$53,729	\$0	\$0	\$53,729
Task 3	\$25,940	\$0	\$0	\$25,940
<b>Total Expenditure</b>	<b>\$95,675</b>	<b>\$0</b>	<b>\$0</b>	<b>\$95,675</b>

Source of Cash Contributions	2019/20	2020/21	2021/22	Total
Federal Government (75%)	\$71,756	\$0	\$0	\$71,756
<b>Total Cash Contributions</b>	<b>\$71,756</b>	<b>\$0</b>	<b>\$0</b>	<b>\$71,756</b>

In-Kind Contributions	2019/20	2020/21	2021/22	Total
CSIRO (25%)	\$23,919	\$0	\$0	\$23,919
<b>Total In-Kind Contributions</b>	<b>\$23,919</b>	<b>\$0</b>	<b>\$0</b>	<b>\$23,919</b>

	Total funding over all years	Percentage of Total Budget
Federal Government Investment	\$71,756	75%
CSIRO Investment	\$23,919	25%
Total Other Investment		
<b>TOTAL</b>	<b>\$95,675</b>	<b>100%</b>



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Task	Milestone Number	Milestone Description	Funded by	Start Date (mm-yy)	Delivery Date (mm-yy)	Fiscal Year Completed	Payment \$ (excluding CSIRO contribution)
Task 1	1	Framework development	GISERA	Jul-20	Sep-20	2020/21	\$12,005
Task 2	2	Data collation	GISERA	Jul-20	Dec20	2020/21	\$40,297
Task 3	3	Reporting	GISERA	Jan-21	Feb-21	2020/21	\$19,455

### 13. References

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<https://doi.org/10.25919/5b86edd13ce23>



## 2 Variations to Project Order

Changes to research Project Orders are approved by the GISERA Director, acting with authority provided by the GISERA National Research Management Committee, in accordance with the [National GISERA Alliance Agreement](#).

The table below details variations to research Project Order.

### Register of changes to Research Project Order

Date	Issue	Action	Authorisation





### 3 Progress against project milestones

Progress against milestones are approved by the GISERA Director, acting with authority provided by the GISERA National Research Management Committee, in accordance with the [National 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 approved for one amber light.
    - 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 and undertaken by GISERA Regional Research Advisory Committee.
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.



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## Project Schedule Table

ID	Activities / Task Title (should match activities in impact pathway section)	Task Leader	Scheduled Start	Scheduled Finish	Predecessor
<b>Task 1</b>	Framework development	Olga Barron	15/07/2020	01/09/2020	None
<b>Task 2</b>	Data collation	Andrew Taylor	15/07/2020	23/12/2020	None
<b>Task 3</b>	Reporting	Olga Barron	04/01/2021	25/02/2021	Task 1 and 2

## Project Schedule Report

THE FIRST TASK IS NOT DUE FOR DELIVERY SEPTEMBER 2020.