REPORT

EPPG00885313 Spring Gully - Plan of Operations (April 2023 to June 2026)

Australia Pacific LNG Upstream

This Plan of Operations has been prepared to comply with the section 292 of the *Environmental Protection Act* 1994 and identifies all disturbance and rehabilitation activities associated with Environmental Authority EPPG00885313 (Spring Gully) for the relevant period.

Revision	Date	Description	Originator	Checked	QA/Eng	Approved
0	22/10/2021	Issued for Use	J. Storey	C. Bignill	N. Buchanski	N. Buchanski
1	21/03/2023	Issued for Use	J. Storey L. Follent	C. Bignill	N. Buchanski	N. Buchanski
2	6/10/2023	Amended for use	A. Sandeep	J. Storey	C. Bignill	C. Bignill
3	14/11/2025	Amended for use	T. Hansard	N. Whittaker	N. Whittaker	N. Whittaker

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Document Conventions

The following terms in this document apply:

- **Will**, **shall** or **must** indicate a mandatory course of action
- **Should** indicates a recommended course of action
- **May** or **can** indicate a possible course of action.

Document Custodian

The custodian of this document is the Strategic Approvals Manager. The custodian is responsible for maintaining and controlling changes (additions and modifications) to this document and ensuring the stakeholders validate any changes made to this document.

Deviations from Document

Any deviation from this document must be approved by the Strategic Approvals Manager.

Table of Contents

1. Content Requirements

The content of the Plan of Operations has been developed in accordance with Section 292 of the EP Act. The Plan of Operations requirements, as described in Section 292 of the EP Act, are cross-referenced with the sections of this Plan of Operations in Table 1.

Table 1: Plan of Operations Content Requirements

Plan of Operations requirements	Where information is provided
(1) A plan of operations must:	
(a) Be in the approved form	Refer to Plan of Operations Application Form (Section 2)
(b) describe the following:	
(i) each petroleum lease for the environmental authority;	Question 5 of the Plan of Operations Application Form (Section 2) & Plan of Activities (Section 4)
(ii) the land to which each petroleum lease relates;	Question 6 of the Plan of Operations Application Form (Section 2) & Spatial Data (Section 3)
(iii) the land on which the plan applies;	Question 7 of the Plan of Operations Application Form (Section 2)
(c) state the period to which the plan applies (the *plan period*); and	Question 4 of the Plan of Operations Application Form (Section 2) & Plan of Activities (Section 4)
(d) include the following:	
(i) a map showing where all petroleum activities are to be carried out on the land;	Refer to Proposed Activities Map (Section 5)
(ii) an action program for complying with the conditions of the environmental authority;	Question 9 of the Plan of Operations Application Form (Section 2) Action Program (Section 6)
(iii) a program for the rehabilitation of land disturbed or proposed to be disturbed under each petroleum lease;	Question 10 of the Plan of Operations Application Form (Section 2) Rehabilitation Program (Section 7) Section 3: Spatial Data
(iv) the matters prescribed under an environmental protection policy or a regulation; and	N/A
(e) be accompanied by a compliance statement for the plan; and	Question 11 and Appendix 4 of the Plan of Operations Application Form (Section 2)
(f) be accompanied by the fee prescribed by regulation.	N/A
(3) A compliance statement under subsection (1)(e) must—	Question 11 and Appendix 4 of the Plan of Operations Application Form (Section 2)
(a) state the extent to which the plan complies with the conditions of the environmental authority; and	
(b) be made-	
(i) if the holder is an individual - by the holder	

Plan of Operations requirements	Where information is provided
(ii) if the holder is a corporation – by an executive officer of the corporation	
(4) The plan period cannot be longer than 5 years.	Question 4 of the Plan of Operations Application Form (Section 2)
(5) A proposed plan of operations may relate to 1 or more petroleum leases	Question 5 of the Plan of Operations Application Form (Section 2)

2. Plan of Operations Application Form

Form

Environmental Protection Act 1994

Submission of a plan of operations

This is the approved form that is to be used by an environmental authority holder under section 291 of the Environmental Protection Act 1994 (EP Act) to submit a plan of operations to the administering authority.[1]

A plan of operations is only required for an environmental authority for a petroleum activity authorised under a petroleum lease (other than a petroleum lease granted under the *Petroleum Act 1923*), if the petroleum activity is an ineligible environmentally relevant activity (ERA). However, where the information provided in this plan of operations is to be used to satisfy the spatial information and/or rehabilitation plan requirements in the Estimated Rehabilitation Cost (ERC) application, this plan of operations must include all disturbance and rehabilitation activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, authority to prospect (ATP) etc).

An environmental authority holder must not carry out, or allow the carrying out of, an activity under the relevant lease unless a plan of operations for all relevant activities has been given to the administering authority. The environmental authority holder must comply with the plan of operations when carrying out an activity under the relevant lease.

This plan of operations form may be used for submission of an initial plan of operations, replacement plan of operations, or amendment of a current plan of operations. **All of the information provided in this form, including all attachments and submitted spatial information, amounts to the plan of operations**.

Note that a proposed plan of operations may relate to one or more petroleum leases authorised under an environmental authority.

For information on plans of operations, including details of submission requirements and supporting information to be provided, please refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821[2]).

If you would like to have a pre-lodgement meeting, please fill out and lodge the form Application for pre-lodgement services (ESR/2015/1664) prior to lodging this application.

Definitions of terms used in this form

Where there is inconsistency between the definition of terms here and the terms used in the EP Act, the terms in the EP Act apply.

Ineligible ERA	An environmentally relevant activity that does not comply with the eligibility criteria in effect for the activity, or for which eligibility criteria are not in effect, or that is carried out as part of a significant project.

[1] The Department of the Environment, Tourism, Science and Innovation is the administering authority under the *Environmental Protection Act 1994*.

[2] This is the publication number. The publication number can be used as a search term to find the latest version of a publication at www.qld.gov.au.

GUIDE

If you require assistance in answering any part of this form, or have any questions about your submission, please contact the Energy and Extractive Resources Business Centre. Contact details are at the end of this form.

The environmental authority number and details may be found on the existing environmental authority or quoted in other correspondence received from the administering authority.

If more space is required for any responses, please attach additional information as a separate page.

If there is an agent acting on behalf of the environmental authority holder, provide details in this section. An agent could be a consultant or a contact for the environmental authority holder.

As statutory documents need to be sent to all applicants, this section can also be used when there are multiple environmental authority holders to nominate an address for statutory documentation to be sent 'care of' to.

Application details

1. Environmental authority

ENVIRONMENTAL AUTHORITY NUMHBER
EPPG00885313
ENVIRONMENTAL AUTHORITY HOLDER NAME/S
AUSTRALIA PACIFIC LNG PTY LIMITED AUSTRALIA PACIFIC LNG CSG MARKETING PTY LIMITED

Project name (if applicable)

Spring Gully

Address for service / Agent details

The address supplied here will be used as a service address for sending statutory documents. If blank, statutory documents will be sent to the address previously supplied for the holder or principal applicant for the environmental authority.

INDIVIDUAL OR BUSINESS NAME (INCLUDE TRADING NAME IF RELEVANT) AUSTRALIA PACIFIC LNG PTY LIMITED AUSTRALIA PACIFIC LNG CSG MARKETING PTY LIMITED	
RESIDENTIAL ADDRESS OR REGISTERED BUSINESS ADDRESS (NOT A POST OFFICE BOX ADDRESS) 135 CORONATION DRIVE MILTON 4064	
POSTAL ADDRESS (IF DIFFERENT FROM ABOVE) PO BOX 148, BRISBANE 4001	
CONTACT PERSON AND POSITION TARA HANSARD, SENIOR ENVIRONMENTAL APPROVALS, ORIGIN ENERGY	
PHONE 0460 038 272	FACSIMILE
EMAIL ENVAPPROVALS@UPSTREAM.ORIGINENERGY.COM.AU	

2. Plan of operations type

☒ Amendment	Proceed to question 3
☐ Replacement	Proceed to question 4
☐ Initial	Proceed to question 4

Refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821), for the most up to date information required to be included with this submission.

3. Amendment details

Provide details of the amendments, including the reasons for the amendment and a summary of any changes to activities.

This Plan of Operations amendment is required to update the proposed activities table (Table 2) and map (Section 5) within the existing plan period. Table 2 has been updated to accommodate a proposed gathering pipeline on Petroleum Licence (PL) 195 and remove a well development package in PL 419.

All activities and domain totals have decreased overall, resulting in the total maximum proposed disturbance authorised in the Plan of Operations reducing. Given this, an application for a revised ERC decision is not required, as there is no change to the carrying out of the resource activity that may result in an increase in the ERC for the activity, as per section 304 of the EP Act.

Please refer to the supporting table attached to this application for a detailed summary of all the changes relevant to this Plan amendment.

4. Plan period

A plan of operations must state a plan period of a maximum of five years

An amendment cannot extend the current plan period.

An ERC decision must be in effect and cover the period of the plan period.

If you are submitting a replacement plan of operations, you must submit an ERC decision application on the same day with the same period.

State the period for which the plan will apply.

COMMENCEMENT DATE	30 / 04 / 2023
COMPLETION DATE	30 / 06 / 2026

It is a condition of the environmental authority that the plan period for the plan of operations must be consistent with the ERC period. The commencement date for the plan of operations should be on or after the ERC commencement date, and the completion date for the plan of operations should be on the same day as the completion date for the ERC completion date.

However, if you are submitting a replacement plan of operations you must submit an ERC decision application on the same day, with the same period.

☐ An application for an ERC decision requesting the same period as the proposed plan of operations period has been submitted

OR

☒ An existing ERC decision that covers the period of the initial proposed plan of operations period is in effect and the existing ERC amount for that decision has not changed.

Petroleum resource being extracted includes all minerals authorised under the P&G Act. For example, Crude Oil, CSG or Natural Gas.

5. Description of each petroleum lease

Provide a description of each petroleum lease for the environmental authority in the table below.

LEASE NUMBER	PETROLEUM RESOURCE BEING EXTRACTED	WILL THERE BE ANY NEW DISTURBANCE TO THE LEASE DURING THE PLAN PERIOD?
PL195 PL200 PL204 PL268 PL414 PL415 PL416 PL417 PL418 PL419	CSG or natural gas	☒ Yes ☐ No
		☐ Yes ☐ No
		☐ Yes ☐ No

6. Description of land to which each lease applies

Spatial information must provide a description of the land to which each petroleum lease applies. This description must address the following information for each lease:

- Original land use(s)
- Post-operation land use(s)
- Sensitive receptor(s)
- Project boundary

Spatial information must be prepared and submitted in accordance with the department's guideline: Spatial Information Submission (ESR/2018/4337).

This information must be consistent with the applicable schema table in Attachment 1.

☐ Spatial information has been submitted

OR

If you have previously submitted this spatial information in a former plan of operations and the information is still current and relevant, you may use this information to satisfy this requirement.

☒ Spatial information has previously been submitted to the department

7. Description of the land to which the plan applies

Refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821), for the most up to date information required to be included with this submission, and the definitions of these categories.

Identify the categories contained in the table below, where relevant to any areas or potential areas of significant disturbance during the plan period.

CATEGORY	RELEVANT?

Category A environmentally sensitive area (ESA) defined under the Environmental Protection Regulation 2019	☒ No ☐ Yes
Category B ESA defined under the Environmental Protection Regulation 2019	☐ No ☒ Yes
Matters of National Environmental Significance (MNES) under the *Environment Protection and Biodiversity Conservation Act 1999*	☐ No ☒ Yes
Matters of State environmental significance (MSES) under the Environmental Offsets Regulation 2014	☐ No ☒ Yes
Areas of regional interest under the *Regional Planning Interest Act 2014*	☐ No ☒ Yes
Critically endangered, endangered, vulnerable, near threatened or least concern wildlife species under the *Nature Conservation Act 1992*	☐ No ☒ Yes
Watercourses, wetlands, springs (including relevant environmental values) or river improvement trust asset areas	☐ No ☒ Yes

8. Plan of all activities

Provide a plan describing all activities to be carried out on the land within the plan period.

The plan must include:

Spatial information must be prepared and submitted in accordance with the department's guideline: Spatial Information Submission (ESR/2018/4337).

A. Existing activities

Spatial information must provide the location and details of all existing activities carried out/ infrastructure constructed on the land at the commencement of the plan period. This information must be consistent with the applicable schema table in Attachment 1.

☒ Spatial information has been submitted

B. Proposed activities

Attach details of all proposed activities to be carried out/ infrastructure to be constructed on the land within the plan period. This information must be in the same format and include the information outlined in Appendix 1.

☒ Proposed activities attached

Refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821), for the most up to date information required to be included with this submission.

9. Action program

Attach an action program for complying with each schedule of conditions in your environmental authority. This program must be in the same format and include the information outlined in Appendix 2.

☐ Action program attached

OR

If you have previously submitted this action program (in the format of Appendix 2) in a former plan of operations and the information is still current and relevant, you may use this document to satisfy this requirement.

☒ Action program has previously been submitted to the department

Refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821), for the most up to date information required to be included with this submission.

10. Rehabilitation program

Attach a rehabilitation program for land disturbed or proposed to be disturbed under each relevant lease during the plan period.

Note: If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation program in the plan of operations is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance.

The rehabilitation program must contain the following:

A. Rehabilitation plan

Attach a detailed rehabilitation plan developed with consideration of the nature, staging and areas of proposed rehabilitation works:

☐ Rehabilitation plan attached

OR

If you have previously submitted a rehabilitation plan, or equivalent plan, to the administering authority and the information is still current and relevant, you may use this plan to satisfy this requirement.

☒ Equivalent document has previously been submitted to the department

Name of document: Gas Fields Rehabilitation Plan

Date document was submitted: May 2023

B. Rehabilitation schedule

Spatial information must be prepared and submitted in accordance with the department's guideline: Spatial Information Submission (ESR/2018/4337)

Attach a schedule of rehabilitation activities detailing the type and areas of rehabilitation proposed to be undertaken within the plan period. This schedule must be in the same format and include the information outlined in Appendix 3.

Note: If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation schedule is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance.

☐ Rehabilitation schedule attached

Existing Rehabilitation

Spatial information must provide the location and details of all existing rehabilitation present on the land at the commencement of this plan period. This information must be consistent with the applicable schema table in Attachment 1.

☒ Spatial information has been submitted

11. Compliance statement

A compliance statement for this plan of operations must be provided by completing the form in Appendix 4: Compliance statement for a plan of operations.

Please note: **It is an offence to give the administering authority information that is false, misleading or incomplete.**

☒ Compliance statement attached

The compliance statement must be made:

1) If the holder is an individual/s—by the holder
2) If the holder is a corporation—by the executive officer of the corporation

Where there is more than one holder of the environmental authority, this declaration is to be signed by all holders, unless there is an agreement between all holders that one can sign on behalf of the other.

Note: If only one holder is signing this application form, they are committing all holders to the content of the application and the declaration.

Where the environmental authority holder is a company, this form must be signed by an authorised person for that company.

Privacy statement

Pursuant to section 540 of the *Environmental Protection Act 1994* (EP Act), A copy of this form, its attachments and submitted spatial information are releasable to the public register. The public register is available for inspection by members of the public who are able to take extracts, or copies of the documents from the public register. Documents that are required to be kept on the public register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@detsi.qld.gov.au or telephone 13 74 68.

12. Declaration

Note: If you have not told the truth in this application you may be prosecuted.

Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox.

☒ I have the authority to sign this form on behalf of all the joint holders of the environmental authority.

I declare that:

- I am the holder of the environmental authority or an authorised signatory.
- The information provided is true and correct to the best of my knowledge.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, is false or misleading in a material particular.
- I understand that it is an offence under section 480A of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, contains incomplete information in a material particular.
- I understand that failure to provide sufficient information may lead to the plan of operations being invalid.
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

SIGNATORY'S NAME Nicole Whittaker	
SIGNATURE 	
POSITION OF SIGNATORY Environmental Approvals Lead	DATE 14/11/2025
JOINT HOLDER'S NAME (IF APPLICABLE)	JOINT HOLDER'S SIGNATURE (IF APPLICABLE)
JOINT HOLDER'S NAME (IF APPLICABLE)	JOINT HOLDER'S SIGNATURE (IF APPLICABLE)

Applicant checklist

- ☒ Application form has been completed and signed
- ☐ Question 6: Spatial information describing each petroleum lease submitted
- ☐ Question 8A: Spatial information for all existing activities submitted
- ☒ Question 8B: Plan of proposed activities attached
- ☐ Question 9: Action program attached
- ☐ Question 10A: Rehabilitation plan attached (if applicable)
- ☐ Question 10B: Rehabilitation schedule for the plan period attached
- ☐ Question 10C: Spatial information for all existing rehabilitation submitted
- ☒ Question 11: Compliance statement attached

Further information

The latest version of this publication and other publications referenced in this document can be found at www.qld.gov.au using the relevant publication number (e.g. ESR/2018/4340 for this document) as a search term.

Please submit your completed form to the Energy and Extractive Resources Business Centre, Department of the Environment, Tourism, Science and Innovation by:

- Email: EnergyandExtractive@detsi.qld.gov.au
- Regular post: GPO Box 2454, BRISBANE QLD 4001

Enquiries:

Energy and Extractive Resources Business Centre

Phone: 07 3330 5715

Email: EnergyandExtractive@detsi.qld.gov.au

APPENDIX 1—PLAN OF ACTIVITIES: PART B (PROPOSED ACTIVITES)

1. *Include all domains which are applicable to the activities proposed to be undertaken on the land during the plan period.*
2. *For each domain, add a line for each activity that applies. A list of activities is provided in Attachment 2 of this form.*
3. *Where a particular activity is not listed in Attachment 2, you may add your own line item to the below table. This activity can be inserted into the applicable domain, or into the 'Additional Activity' domain.*
4. *Where the information provided in this plan of operations is to be used to satisfy the spatial information requirements in the Estimated Rehabilitation Cost (ERC) application, this plan of activities must include all proposed activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, ATP's etc) and must be consistent with what will be input into the ERC calculator.*

ACTIVITY *Example (exploration): Seismic 2D*	**DISTURBANCE DETAILS**														
	YEAR 1			**YEAR 2** *(if applicable)*			**YEAR 3** *(if applicable)*			**YEAR 4** *(if applicable)*			**YEAR 5** *(if applicable)*		
	TENURE *Example: PL123*	**ADDITIONAL PARAMETERS** *Example: 200 km*	**DISTURBANCE AREA (ha)** *Example: XX Ha*	**TENURE**	**ADDITIONAL PARAMETERS**	**DISTURBANCE AREA (ha)**	**TENURE**	**ADDITIONAL PARAMETERS**	**DISTURBANCE AREA (ha)**	**TENURE**	**ADDITIONAL PARAMETERS**	**DISTURBANCE AREA (ha)**	**TENURE**	**ADDITIONAL PARAMETERS**	**DISTURBANCE AREA (ha)**
DOMAIN 1: EXPLORATION (*if applicable*)															
Total Domain Disturbance Area (ha)															
DOMAIN 2: ROADS, TRACK, LAYDOWN AND BORROW PITS (*if applicable*)															
Total Domain Disturbance Area (ha)															

DOMAIN 3: CAMPS, BUILDINGS AND SEWAGE TREATMENT PLANTS *(if applicable)*															
Total Domain Disturbance Area (ha)															
DOMAIN 4: POWER GENERATION AND DISTRIBUTION *(if applicable)*															
Total Domain Disturbance Area (ha)															
DOMAIN 5: WELL PADS AND ASSOCIATED INFRASTRUCTURE *(if applicable)*															
Total Domain Disturbance Area (ha)															
DOMAIN 6: PIPELINES *(if applicable)*															
Total Domain Disturbance Area (ha)															
DOMAIN 7: GAS PROCESSING AND OIL STORAGE FACILITIES *(if applicable)*															

Total Domain Disturbance Area (ha)														
DOMAIN 8: WATER TREATMENT PLANTS AND TRANSFER STATIONS *(if applicable)*														
Total Domain Disturbance Area (ha)														
DOMAIN 9: WATER STORAGE INFRASTRUCTURE (DAMS / PONDS & TANKS) *(if applicable)*														
Total Domain Disturbance Area (ha)														
DOMAIN 10: ADDITIONAL ACTIVITIES *(if applicable)*														
Domain Disturbance Area (ha)														
TOTAL DISTURBANCE AREA (ha) ***per year*** *(= D1 + D2 + D3 + D4 + D5 + D6 + D7 + D8 + D9 + D10)*														

APPENDIX 2 —ACTION PROGRAM

1. *Complete required details demonstrating how you will comply with the conditions of your environmental authority.*
2. *At a minimum, include all schedules on your environmental authority. Individual conditions may also be included where appropriate.*

EA CONDITION	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
Example: Schedule X	*XXXX Monitoring Plan*	*Schedule construction for dry time of year, get CPESC to develop ESC plan, undertake monitoring and ensure maintenance of ESC measures during construction phase*

APPENDIX 3 —REHABILITATION SCHEDULE

- *Detail all the rehabilitation activities proposed to be undertaken on the land during the plan period.*
- *Similar rehabilitation activities can be aggregated together (e.g. 3 wells), provided that the same rehabilitation methodology will be used for all sites and they are all located in areas of equal environmental sensitivity (e.g. if one well is located in a MSES that would need to be a separate line item).*
- *Where the information provided in this plan of operations is to be used to satisfy the spatial information requirements in the ERC application, this schedule must include all rehabilitation activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, ATP's etc).*
- *If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation schedule in the plan of operations is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance. The 'DOMAIN' and 'REHABILITATION WORKS ALREADY UNDERTAKEN' columns are only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application.*

DOMAIN[1]	ACTIVITY	LOCATION	AREA (ha)	POST-OPERATION LAND USE	TIMING (WHEN)[2]	REHABILITATION METHODOLOGY[3]	REHABILITATION WORKS ALREADY UNDERTAKEN[4]
Roads, Tracks, Laydowns and Borrow Pits	*Roads*	*PLXXX*	*XX*	*Grazing*	*Rehabilitation site works – Q3 2026 (Year 4 of the Plan)* *Completed for handover or relinquishment – Q3 2027 (Year 5 of the Plan)*	• *Removal of aboveground infrastructure.* • *Strip capping material and reprofile pad.* • *Reinstate natural drainage lines and contours.* • *Reinstate topsoil.* • *Application of seed and fertiliser.* • *Installation of erosion and sediment controls as required.* • *Installation of fencing as required.*	*Nil, sites are still active.*

[1] This column is only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application. If this column is required, insert the Domain type from the ERC calculator.

[2] If this rehabilitation schedule is to be used to satisfy the rehabilitation plan requirements in the ERC application and the rehabilitation is to be undertaken outside of the plan period, include the year if known or insert “Rehabilitation to be undertaken outside of plan period”.

[3] Provide a description of rehabilitation activities that will be specifically undertaken during the plan period. If this rehabilitation schedule is to be used to satisfy the rehabilitation plan requirements in the ERC application, include the rehabilitation methodology required to restore all existing disturbance and disturbance proposed to be undertaken in the plan period to its post-operation land use.

[4] This column is only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application. If this column is required, provide a description of rehabilitation activities that have already been undertaken at the start of the plan period.

APPENDIX 4 – COMPLIANCE STATEMENT

GUIDE

The compliance statement must be made:

1) If the holder is an individual/s—by the holder
2) If the holder is a corporation—by the executive officer of the corporation.

Where there is more than one environmental authority holder, this certification is to be signed by the person authorised to sign on behalf of all EA holders (i.e. the principal holder).

1. Joint holders

Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox.

☒ I have the authority to sign this form on behalf of all the joint holders of the environmental authority.

2. Person(s) making the compliance statement

This compliance statement is made by (tick one):

☐ **A.** the environmental authority holder (individual/s):

PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME

☒ **B.** An executive officer of the environmental authority holder (corporation):

NAME OF ENVIRONMENTAL AUTHORITY HOLDER(S) AUSTRALIA PACIFIC LNG PTY LIMITED
ABN / ACN 68 001 646 331
NAME OF EXECUTIVE OFFICER Nicole Whittaker
POSITION OF EXECUTIVE OFFICER ENVIRONMENTAL APPROVALS LEAD
ADDRESS OF EXECUTIVE OFFICER LVL 28, 180 ANN STREET, BRISBANE 4000

3. Compliance statement

State the extent to which the plan of operations complies with the conditions of the environmental authority:

The Plan of Operations complies with the conditions of the environmental authority

Please read carefully through the certification opposite before signing.

4. Compliance statement certification

I do solemnly and sincerely declare that:

- I am the holder, or where the holder is a corporation, an executive officer of the holder of the environmental authority.
- To the best of my knowledge all information provided as part of this compliance statement, including attachments, addresses the relevant matters and is true, correct, complete, and does not contain misleading information.
- I have not knowingly failed to reveal any relevant information or document to the administering authority.
- The opinions expressed in this compliance statement, including attachments, are honestly and reasonably held.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, is false or misleading in a material particular.
- I understand that it is an offence under section 480A of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, contains incomplete information in a material particular.
- I understand that all information supplied as part of this compliance statement, including attachments, can be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

SIGNATURE 	DATE 14/11/2025
NAME Nicole Whittaker	
ADDRESS Lvl 28, 180 Ann Street, Brisbane 4000	
JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)	JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)
JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)	JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)

The address provided must be the residential address of the signatory.

Attachment 1—Spatial data requirements for plan of operations

Attachment 1 provides guidance on the required content of spatial information (shapefiles) for the submission of areas of disturbance and rehabilitation on site as authorised under an environmental authority. This attachment should be read in conjunction with the department's guideline: Spatial Information Submission (ESR/2018/4337). To obtain a copy of the guideline visit www.qld.gov.au and search for "ESR/2018/4337". The following sections provide information about the required fields and attributes for datasets.

Important note: where the information provided in a plan of operations is to be used to satisfy the spatial information requirements in the ERC application, the plan of operations must include all disturbance and rehabilitation activities under all tenures of the environmental authority for the relevant plan period (including 1923 petroleum leases, ATP's etc.)

1. Required files—Table 1

Environmental authority holders must submit shapefiles detailing the existing disturbance and rehabilitation on site in addition to a description of the relevant petroleum lease(s). Where the plan relates to a site that has no existing disturbance or rehabilitation, this should be stated in the spatial information submission email to which the description of the petroleum lease file is attached.

Each geometry type must be submitted in a separate file, as outlined within table 1. Each file must be named in accordance with the requirements outlined within the department's guideline: Spatial Information Submission (ESR/2018/4337).

Table 1: Plan of operations shapefile checklist

File	Spatial information requirement	Schema	Example file name (e.g. using submission date of 30 June 2023)
1	Disturbance and rehabilitation on site – points	Table 2	EPPR00372287_PoO_PT_30062023.zip
2	Disturbance and rehabilitation on site -lines	Table 2	EPPR00372287_PoO_LN_30062023.zip
3	Disturbance and rehabilitation on site - polygons	Table 2	EPPR00372287_PoO_PY_30062023.zip
4	Description of petroleum lease	Table 3	EPPR00372287_PoOL_PY_30062023.zip

Where:

- PT = point (geometry)
- LN = line (geometry)
- PY = polygon (geometry)
- PL = description of the petroleum lease(s)

2. Requirements for disturbance and rehabilitation data – Table 2

Table 2 comprises the schema for disturbance and rehabilitation data as required within questions 8A and 10C of the approved form. It is important to note that a number of options are provided for some fields, however only one value for each field should be populated from the available list.

A master schema spreadsheet and a shapefile template is available on the department's website at www.detsi.qld.gov.au, using the search term "submission of spatial information".

Table 2: Schema for plan of operations - disturbance and rehabilitation

Field Name	Type	Length	Definition	Domain Values[3]	Domain Value Description	Mandatory/ Optional
PERMIT_REF	TEXT	50	The alpha-numeric environmental authority number relevant to the spatial information.			Mandatory
PROCESS	TEXT	4	The relevant process spatial data is being submitted for.	AR	Annual Return	Mandatory
				ERCP	Estimated Rehabilitation Cost Petroleum	
				PoO	Plan of Operations	
SITE_NAME	TEXT	254	Site name relating to the environmental authority.			Mandatory
SITE_ID	TEXT	20	This field contains a unique identifier for the spatial feature, which has been generated by the proponent.			Mandatory for ARs. And PoO. Optional for ERCs.
MAP_ID	TEXT	5	This field contains a unique user entered identifier linking to ERC calculator. This field is optional and should only be used where a MAP ID is to be			Not required for ARs. Optional for ERC / PoO.

[3] If blank, populate based on Attribute type & definition

			provided in the ERC Calculator and is not required for Annual Returns.			
DATE_START	DATE	dd/mm/yyyy	This field indicates the reporting commencement date e.g. 01/01/2023.			Mandatory
DATE_END	DATE	dd/mm/yyyy	This field indicates the reporting end date e.g. 31/12/2023.			Mandatory
STATUS	TEXT	2	This field relates to the status of the activity in terms of rehabilitation or disturbance. Polygons which represent areas of disturbance should describe this field as 'D1' for disturbance. Polygons which represent areas of rehabilitation should describe this field as either R1, R2 or R3 depending on the status of the rehabilitation. R1 - indicates that rehabilitation works have commenced on ground. R2 - indicates where rehabilitation has been completed but not certified in accordance with the EP Act. R3 - indicates areas of completed and certified rehabilitation in accordance with the EP Act.	D1	Disturbance	Mandatory
				R1	Rehabilitation Commenced (non-certified)	
				R2	Completed Rehabilitation (for which progressive certification has not yet been approved in accordance with the EP Act)	
				R3	Certified Rehabilitation (for which progressive certification has been approved in accordance with the EP Act)	
SOURCE	TEXT	5	This field identifies the source of the spatial information and the capture methodology for the spatial information provided.	DIG	Digitising (Tracing over Ortho Imagery)	Mandatory
				GPSD	GPS Differential Survey	
				GPSND	GPS Non Differential Survey	
				RTK	Real-Time Kinematic (RTK) Survey	
				UK	Unknown	

ACT_TYPE	TEXT	4	This field indicates the type of activity. If the activity is for rehabilitation, please select the previous activity for the area. If your activity is not available from the list and the ACTIVITY_TYPE is selected as 'Other', you must select the appropriate domain in the DOMAIN_TYPE field and provide information on the activity type in the COMMENTS field.	AW	Appraisal Well (Point)	Mandatory for ERC and PoO. Not required for Annual Returns.
				Core	Core hole (Point)	
				OGW	Conventional oil/gas well (Point)	
				OW	Operational Well (Point)	
				GPA	Gas pipeline (above ground) (Line)	
				GPB	Gas pipeline (below ground) (Line)	
				OPA	Oil pipeline (above ground) (Line)	
				OPB	Oil pipeline (below ground) (Line)	
				PL	Power Lines (Line)	
				WPA	Water pipeline (above ground) (Line)	
				WPB	Water pipeline (below ground) (Line)	
				AT	Access Track (Polygon)	
				BP	Borrow Pit (Polygon)	
				CT	Communication tower (Polygon)	
				DTB	Demountable / temporary building (Polygon)	
				GPF	Gas processing facility (Polygon)	
				LF	Landfill~~s~~ (Polygon)	
				LNGP	LNG plant (Polygon)	
				LY	Laydown yard (Polygon)	
				NRDL	Non-regulated dam - lined (Polygon)	

				NRDU	Non-regulated dam - unlined (Polygon)	
				OSF	Oil storage facility (Polygon)	
				PB	Stand-alone permanent building (Polygon)	
				PC	Permanent camp (Polygon)	
				PGF	Power generation facility (Polygon)	
				RDL	Regulated dam - lined (Polygon)	
				RDU	Regulated dam - unlined (Polygon)	
				Road	Road (Polygon)	
				RoW	Right of way (Polygon)	
				STP	Sewage treatment plant (Polygon)	
				S2D	Seismic 2D (Polygon)	
				S3D	Seismic 3D (Polygon)	
				TC	Temporary camp (Polygon)	
				WaTS	Water transfer station (Polygon)	
				WP	Well pads (Polygon)	
				WTP	Water treatment plant (Polygon)	
				WTS	Waste transfer station (Polygon)	
				OTH	Other (Point, Line, Polygon)	
DOM_TYPE	TEXT	4	This field indicates the domain for the petroleum activity.	Exp	Exploration	Mandatory for ERC and PoO.
				RTLB	Roads, tracks, laydown, borrow pits	

			If the activity is for rehabilitation, please select the domain of the previous activity for the area. If the ACTIVITY_TYPE = 'Other', select the relevant domain to the activity type.	CB	Camps, Buildings and Sewage Treatment Plants	Not required for Annual Returns.
				PGD	Power generation and distribution facility	
				WPI	Well Pads and associated infrastructure	
				Pipe	Pipelines	
				GOF	Gas processing facility or Oil Storage	
				WTTS	Water treatment plants and transfer stations	
				WS	Water Storage infrastructure	
				LNG	LNG plant	
				AA	Additional Activities	
REHAB_ACT	TEXT	254	This field provides a description of the rehabilitation activities which have been undertaken to date. Mandatory if STATUS = R1.			Mandatory if STATUS = R1 for ERC or PoO. Not required for Annual Returns.
AREA_HA	DOUBLE	N/A	This field indicates the area in Hectares. (Polygon only)			Mandatory if GEOMETRY = polygon.
COMMENTS	TEXT	254	A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data or to provide a description for activities which are not included in this table.			Mandatory if ACT_TYPE = OTH.

3. Requirements for describing petroleum leases—Table 3

Table 3 outlines the schema for providing spatial information to describe the petroleum lease(s) as required within question 6 of the approved form. All data for the petroleum lease(s) description is required to be provided as a single file which meets the naming convention within the department's guideline: Spatial Information Submission.

All features provided in this shapefile must be a polygon.

Table 3: Description of petroleum lease schema

Field Name	Type	Length	Definition	Domain Values[4]	Domain Value Description	Mandatory/ Optional
FID	Object ID	N/A	The unique identifier for the spatial feature.			Mandatory
SHAPE	Geometry	N/A	Allowed Geometry: Polygon			Mandatory
PERMIT_REF	TEXT	50	The alpha-numeric environmental authority number relevant to the spatial information.			Mandatory
PROCESS	TEXT	4	The relevant process spatial data is being submitted for	PoOL	Plan of Operations Lease	Mandatory
SITE_NAME	TEXT	254	Site name relating to the environmental authority.			Mandatory
FEATURE	TEXT	4	This field contains the land use feature on site which this polygon is describing. Select the relevant option of either original land use, post-operation land use, sensitive receptor or project boundary using the codes specified.	OLU	Original land use	Mandatory
				PoLU	Post-operation land use	
				SR	Sensitive receptor	
				PB	Project boundary	

[4] If blank, populate based on Attribute type and definition.

Field Name	Type	Length	Definition	Domain Values[4]	Domain Value Description	Mandatory/ Optional
FEAT_DETSIC	TEXT	254	Feature description		This field provides a description of the feature identified in 'FEATURE'.	Mandatory
DATE_	DATE	dd/mm/yyyy	Date of submission			Mandatory
SOURCE	TEXT	5	This field identifies the source of the spatial information and the capture methodology for the spatial information provided.	DIG	Digitising (Tracing over Ortho Imagery)	Mandatory
				GPSD	GPS Differential Survey	
				GPSND	GPS Non Differential Survey	
				RTK	Real-Time Kinematic (RTK) Survey	
				UK	Un Known	
COMMENTS	TEXT	254	A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data.			Optional

Attachment 2—list of petroleum activities

1. *Use the following list to complete the table in Appendix 1 (Proposed Activities) and Appendix 3 (Rehabilitation Schedule).*
2. *Where a particular activity is not listed in the table below, you may add you own line item into the applicable table and choose the appropriate 'additional parameters' (e.g. if you have additional work areas on site, add these as an additional line item in Appendix 1 and include the 'number' of work areas as the additional parameter).*
3. *Where using this table to complete information which will be used for an ERC application, ensure that the ERC calculator is consistent with the domains and activity types used in the supporting information.*

Domain	Activity type	Additional Parameters
Exploration	Seismic 2D	Length (km)
	Seismic 3D	Length (km)
	Coreholes	Number
Roads, Track, Laydown and Borrow Pits	Road	Length (km)
	Access Track	Length (km)
	Laydown Yard	Number
	Borrow Pits	Number
	Landfills	Number
Camps, Buildings and Sewage Treatment Plants	Temporary Camp	Number
	Permanent Camp	Number
	Demountable/ Temporary Building	Number
	Stand-alone Permanent Building	Number
	Waste Transfer Station	Number
	Sewage Treatment Plant	Number
Power Generation and Distribution	Power Lines	Length (km)
	Power Generation Facility	Number
	Communication Tower	Number
Well Pads and Associated Infrastructure	Appraisal Well	Number
	Operational Well	Number
	Conventional Oil/ Gas Well	Number
	Well pads	Number
Pipelines	Gas Pipelines (Below Ground)	Length (km)

	Oil Pipelines (Below Ground)	Length (km)
	Water Pipelines (Below Ground)	Length (km)
	Gas Pipelines (Above Ground)	Length (km)
	Oil Pipelines (Above Ground)	Length (km)
	Water Pipelines (Above Ground)	Length (km)
	Right of way	Number
Gas Processing and Oil Storage Facilities	Gas Processing Facility	Number
	Oil Storage Facility	Number
Water Treatment Plants and Transfer Stations	Water Treatment Plant	Number
	Water Transfer Station	Number
Water Storage Infrastructure (Dams and Tanks)	Regulated Dam – lined	Number
	Regulated Dam – unlined	Number
	Non-regulated Dam – lined	Number
	Non-regulated Dam – unlined	Number
Additional Activities	(Description of activity)	Number / Length (km)

3. Spatial Data

As per Section 6 and Section 8 (A) of the approved form *Submission of a plan of operations* (ESR/2018/4340), spatial data was previously prepared and submitted in accordance with the Department's guideline: *Spatial Information Submission* (ESR/2018/4337) and as per the applicable schema table in Attachment 1 of the form.

No additional /revised spatial data is being submitted as part of this amendment application.

4. Plan of Activities (Proposed Activities)

The plan of activities includes existing and proposed activities within the tenures covered by the Spring Gully EA for the period 30 April 2023 to 30 June 2026 (the plan period). Spatial data has previously been submitted which provides the location and details of all existing activities/infrastructure.

Table 2 below follows the template of Attachment 1 of the *Plan of Operations Application Form* (ESR/2018/4340). Table 2 has been updated to accommodate a proposed gathering pipeline on Petroleum Licence (PL) 195 and remove a well development package in PL 419. These changes have been captured in blue.

All activities and domain totals have decreased overall, resulting in the total maximum proposed disturbance authorised in the Plan of Operations reducing. Given this, an application for a revised ERC decision is not required, as there is no change to the carrying out of the resource activity that may result in an increase in the ERC for the activity, as per section 304 of the EP Act.

The Spring Gully EA EPPG00885313 covers the following tenures:

- PL268
- PL417
- PL200
- PL415
- PL414
- PL416
- PL419
- PL195
- PL418; and
- PL204.

Details of planned activities is provided to the best level available at the time of completion of the Plan of Operations, however due to engineering, landholder and scheduling constraints, changes to planned activities may occur during the period.

Table 2: Plan of Activities (Proposed Activities)

Activity	Tenure	Disturbance Details									
		Year 1		Year 2[1]		Year 3[1]		Year 4[1]		Year 5[1] (Not applicable to current plan period)	
		Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)
Domain 2: Roads, Tracks, Laydown and Borrow Pits											
Access Tracks	PL195 PL204 PL268 PL414 PL415 PL416 PL417 PL418	85.97 km	51.59	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Laydown Yards	PL195 PL204 PL268 PL414 PL415 PL416 PL417 PL418	14 laydowns 96 extra workspace (EWS) and 1 stockpile (1.08 ha)	75.15	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**126.74 ha**									
Domain 3: Camps, Buildings, Sewage Treatment Plant											
Temporary Camps	PL417 PL414 PL415 PL416 PL418	9 camps	8.62	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Site Office	PL414	1 office	0.64	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**9.26 ha**									
Domain 4: Power Generation and Distribution											
Substation	PL204 PL417	2 kiosks	0.195	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Communication Towers	PL414 PL418	2 towers	0.96	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**1.155 ha**									
Domain 5: Well Pads and Associated Infrastructure											
Coal seam gas, Development wells	PL195 PL204 PL268 PL414 PL415 PL416 PL417 PL418	65 well pads	59.43	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Groundwater Bore	P414	3 groundwater monitoring bores	3.0	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**62.43 ha**									
Domain 6: Pipelines											
Gas pipeline (below ground)	PL268 PL195 PL417 PL204	57.52 km	103.53	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**103.53 ha**									
Domain 10: Water storage infrastructure (Dams/Ponds & Tanks)											

Activity	Tenure	Disturbance Details									
		Year 1		Year 2[1]		Year 3[1]		Year 4[1]		Year 5[1] (Not applicable to current plan period)	
		Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)	Additional Parameters	Disturbance Area (ha)
Water storage tanks	PL195	2 tanks	4.43	Activities not completed in year 1 will be carried over into year 2		Activities not completed in year 1 and 2 will be carried over into year 3		Activities not completed in year 1 to 3 will be carried over into year 4		N/A	
Total Domain Disturbance (ha)		**4.43 ha**									
Total Proposed Disturbance (ha)		**307.55 ha**									

Note:
Total number includes an allowance for accelerated work programs to provide contingency and operational flexibility while ensuring the maximum estimated rehabilitation cost is held. Mapping provided in Section 5 is therefore an indication of the location of infrastructure and will be updated as necessary during the review process.

Assumptions

1. Year 1 captures all the activities and associated disturbance for the relevant Plan of Operations period. This is to enable the business to deliver the activities most efficiently, allowing for inevitable changes and movement in the work schedules and due to other constraints, without presenting a risk of a non-compliance with the Plan of Operations if activities were to be specified to exact years.

5. Proposed Activities Map

In accordance with Section 292 (d)(i) of the EP Act, a map showing where all petroleum activities are to be carried out on the land has been provided. Details of planned activities, as shown in the map (Figure 1), is provided to the best level available at the time of completion of the Plan of Operations. As a result of engineering, landholder and environmental constraints, changes to the locations of planned activities may occur during the period.

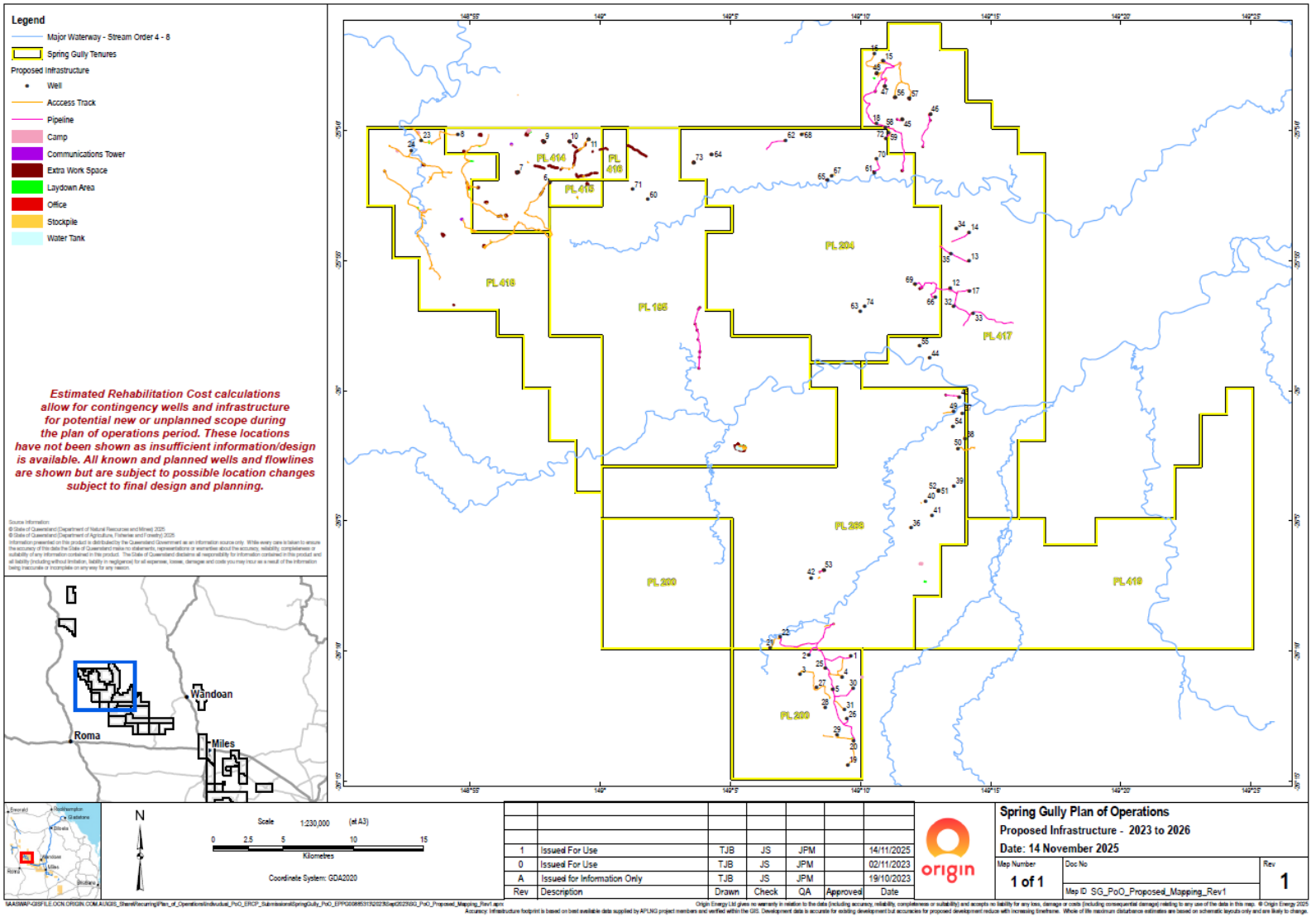

Figure 1: Spring Gully development for the Plan of Operations

6. Action Program

In accordance with Section 292 (d)(ii) of the EP Act, the following Action Program demonstrates how compliance with the conditions of the EA will be achieved. It includes the Origin Energy Health, Safety and Environmental Management System (Section 6.1), and Table 3 which follows the template provided in Appendix 2 of the *Plan of Operations Application Form* (ESR/2018/4340).

6.1. Health, Safety and Environmental Management System

Origin Energy, as the upstream operator of Australia Pacific LNG, conducts activities under an established Health, Safety, Security and Environment Management System (HSSEMS) to minimise and manage the impacts on the workforce, environment and communities in which the company operates. The HSSEMS has been developed with reference to Australian/New Zealand Standard ISO 14001 - Environmental Management Systems. The framework for the HSSEMS is based on the continual improvement methodology of Commit-Plan-Do-Check and Review. The elements of the continual improvement loop are executed through a set of company Standards which interpret and support the Health, Safety and Environment (HSE) Policy.

The HSSEMS is made up of two key directives:

- **HSE System Directive (OT ID 13636942)** – outlines the requirements to implement and maintain an integrated system for the management of health, safety and the environment.
- **HSE Risk Controls Directive (OT ID 13646431) -** outlines the minimum requirements for business specific procedures, processes, systems and controls. The risk controls have been developed in response to the outcomes of Origin's HSE risk assessment processes. They address HSE risks and/or impacts identified as being 'High' or 'Very High' HSE risks and/or impacts that require specific control measures in order to manage the HSE risk and/or impact.

HSE System Directive		HSE Risk Controls Directive
ENABLED & ACCOUNTABLE	1. Accountabilities 2. Planning and Objectives 3. HSE and Operational Competency 4. Communication and Consultation 5. Legal and External Obligations	1. Air, Energy and Greenhouse Management 2. Biodiversity and Biological 3. Fit for Work 4. Hazardous Materials and Waste Management 5. Land Management and Disturbance 6. Noise and Amenity 7. Process Hazard Management 8. Safe Access and Entry 9. Transport 10. Water Management 11. Working with Electricity 12. Working with Mobile Plant
MINDFUL OF RISK	6. Hazard Identification and Risk Management 7. Product Stewardship, Procurement and Contractor Management 8. Control of Work 9. Management of Change 10. Emergency Response	
CONTINUOUSLY LEARNING	11. Incident Management and Learning 12. Performance Measurement and Assurance	

A summary of the HSE System Directive and the HSE Risk Controls Directive and their applicability to the EA is provided in Table 3.

Table 3: Action Program

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
General Conditions Schedule A	• HSE Policy • HSE System Directive (CDN/ID 13636942) • HSE Risk Controls Directive (CDN/ID 13646431) • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • Gain Access Core Process • Management of Change (MOC) Core Process • Manage Incidents and Learning Core process • Manage Information Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • HSE Incident Management Procedure (CDN/ID 13668423) • HSE Induction Procedure (CDN/ID 3676141) • Origin Collective Intelligence System (OCIS) – incident, risk and assurance management system • Origin Compliance Management System (CMS) • ESdat – Origin's monitoring and results database • SAP - Maintenance and workorder system	• Comply with the *Environmental Protection Act's* General Environmental Duty. • Environmental harm is prevented or minimised to the greatest extent. • Ongoing monitoring and maintenance programs of plant and equipment, managed through the SAP maintenance system. • Monitoring is completed by a suitably qualified person. • Analyses and tests are carried out by a laboratory that has quality assurance processes and where required is NATA certified. • Use of a controlled document management system for all records. • Take action to control and respond to environmental incidents to minimise or mitigate potential harm to the environment. • Ensure material project/activity changes are put through the MOC core process, ensuring appropriate review of these changes occurs. • Ensure all personnel that work for or on behalf of Origin, complete the necessary HSE training relevant to their works.
Water Schedule B	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive – Chapter 10 Water Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 4 Hazardous Materials and Waste Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • Manage Assets Core Process • MOC Core Process • Manage Incidents and Learning Core process • Manage Information Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • OCIS – incident, risk and assurance management system • Origin CMS	• Compliance with the Underground Water Impact Report (UWIR) for the Surat CMA. • Compliance with the *End of Waste Code - irrigation of associated water (including coal seam gas water)* (Department of the Environment, Tourism, Science and Innovation (DETSI), 2025). • Compliance with the *End of Waste Code - associated water (including coal seam gas water)* (DETSI, 2025). • Water sampling in accordance with Queensland Government's *Monitoring and Sampling Manual 2018 – Environmental Protection (Water) Policy 2009*, as appropriate. • Groundwater sampling in accordance with *Groundwater Sampling and Analysis – A Field Guide (2009:27 GeoCat #6890.1)*, as appropriate. • Water quality limits for management of produced water including *Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC) Guidelines* for irrigation limits. • Compliance with the DETSI's *Coal seam gas water management - Treated coal seam gas (CSG) water injection well construction Guideline requirements* (ESR/2016/2379) • Compliance with the *Accepted development requirements for operational work that is constructing or raising waterway barrier works* (Department of Primary Industries, 2025). • 'Make good' obligations under the *Water Act 2000*. • Minimise runoff and offsite impacts through implement erosion and sediment controls, as required. • Storage of chemicals and fuels in accordance with Australian Standards.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
	• ESdat – Origin monitoring and results database • SAP - Maintenance and workorder system	• Spill kits must be available at appropriate locations with respect to storage and use of chemicals and fuels. • Take action to control and respond to spills or releases to minimise or mitigate potential harm to the environment. • Locate activities in pre-disturbed areas wherever possible, including utilising existing access tracks through watercourses and wetlands. • Limit clearing and disturbance to the minimum extent required. • Co-locate activities (i.e., access tracks and pipelines) within the same disturbance footprint as far as reasonably practicable. • Undertake water quality monitoring in wetlands and watercourses to ensure downstream impacts are managed in accordance with approval requirements. • Hydrotest water may be released to land where it meets the approval criteria and must not be released to waters. • Establishment and utilisation of the monitoring bore network to monitor for any potential seepage events. • Establishment and annual review against management criteria for produced water. • Seek to maximise beneficial re-use of produced water. • Ensure written agreements are in place for the transfer of produced water off tenure and/or to third parties. • Maintain all monitoring results in the relevant database.
Regulated Structures Schedule C	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive – Chapter 10 Water Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 4 Hazardous Materials and Waste Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • Manage Assets Core Process • MOC Core Process • Manage Incidents and Learning Core process • Manage Information Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • OCIS – incident, risk and assurance management system • Origin CMS • ESdat – Origin monitoring and results database • SAP - Maintenance and workorder system	• *Manual for assessing consequence categories and hydraulic performance of structures* (DETSI, 2025) is used for all regulated structures. • *Structures which are dams or levees constructed as part of environmentally relevant activities* (DESI, 2024) is used for all regulated structures. • Dam water sampling in accordance with Queensland Government's *Monitoring and Sampling Manual 2018 - Environmental Protection (Water) Policy* 2009, and approval requirements, as appropriate. • Complete and implement design plans and as built drawings for each regulated structure. • All low consequence dams are designed and maintained in accordance with relevant engineering standards. • Annual inspections are completed for each regulated structure, with recommendations actioned. • Suitably qualified and experienced persons are used for regulated dam design, certifications, annual inspections and consequence assessments. • Maintenance of the Register of Regulated Dams. • Maintain monitoring results in the relevant database. • Take action to control and respond to releases or environmental incidents to minimise or mitigate potential harm to the environment.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
Land & Disturbance to Land Schedule D & E	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • HSE Risk Controls Directive– Chapter 2 Biodiversity and Biological (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 4 Hazardous Materials and Waste Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 10 Water Management (CDN/ID13646431) • Gain Access Core Process • Manage Assets Core Process • Contract Management Core Process • MOC Core Process • Manage Incidents and Learning Core process • Manage Information Core Process • Manage Incidents and Learning Core Process • HSE Incident Management Procedure (CDN/ID 13668423) • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • OCIS – incident, risk and assurance management system • Origin CMS • SAP - Maintenance and workorder system	• Soil surveying in accordance with Guidelines for *Surveying Soil and Land Resources, 2nd edition* (McKenzie et al. 2008), and/or the *Australian Soil and Land Survey Handbook, 3rd edition* (National Committee on Soil and Terrain, 2009), as appropriate. • General biosecurity obligation under *Biosecurity Act 2014.* • Acid sulfate soils to be managed in accordance with the *Queensland Acid Sulfate Soil Technical Manual*. • Use of the Gain Access Constraints system to locate and design activities outside sensitive areas, as far as reasonably practicable. • Locate activities in pre-disturbed areas wherever possible. • Co-locate activities (i.e., access tracks and pipelines) within the same disturbance footprint as far as reasonably practicable. • Limit clearing and disturbance to the minimum extent required. • Minimise runoff and offsite impacts through implement erosion and sediment controls, as required. • Take action to control and respond to spills or releases to minimise or mitigate potential harm to the environment. • Establish and maintain offsets in accordance with approvals. • Take all reasonable and practical steps to prevent or minimise each biosecurity risk, through for example the implementation of biosecurity hygiene procedures, as required. • Use of existing and formed access tracks, wherever possible. • Manage topsoil appropriately during construction for re-use in reinstatement. • Storage of chemicals and fuels in accordance with Australian Standards. • Spill kits must be available at appropriate locations with respect to storage and use of chemicals and fuels. • Treated effluent will only be irrigated to designated irrigation areas after meeting the water quality criteria of the EA. • Ongoing monitoring and maintenance programs of plant and equipment, managed through the SAP maintenance system. • Fauna spotters will be utilised during clearing activities, as required.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
Environmental Nuisance Schedule F	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive – Chapter 6 Noise and Amenity (CDN/ID13646431) • Gain Access Core Process – Deliver Access • Gain Access Core Process – Manage Community and Stakeholder Complaints • Manage Assets – Complete Operational Readiness • Manage Assets – Commission, Operate and Maintain Assets • Manage Incidents and Learning Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • HSE Incident Management Procedure (CDN/ID 13668423) • OCIS – incident, risk and assurance management system • Origin CMS • ESdat – Origin's monitoring and results database • SAP - Maintenance and workorder system	• Comply with DES's *Noise Measurement Manual* (ESR/2015/2195). • Comply with *Environmental Protection (Noise) Policy 2019*, as required. • Negotiate Compensation and Conduct Agreements (CCA's) and/or alternative arrangements with landholders and sensitive receptors, as required. • Activities must not cause an environmental nuisance at a sensitive or commercial place unless alternative arrangements are in place. • Implement the noise management hierarchy (avoid, minimise and manage). • Schedule, locate, operate and/or undertake activities in a manner in which minimises the risk of noise emissions at sensitive receptors. • Ongoing monitoring and maintenance programs of plant and equipment, managed through the SAP maintenance system. • Undertake noise monitoring in response to nuisance complaints, as required. • Maintain monitoring results in the relevant database.
Air Schedule G	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive – Chapter 1 Air, Energy and Greenhouse Management (CDN/ID13646431) • Manage Assets – Complete Operational Readiness • Manage Assets – Commission, Operate and Maintain Assets • Manage Technical Competence Core Process • Gain Access Core Process – Manage Community and Stakeholder Complaints • Manage Incidents and Learning Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • HSE Incident Management Procedure (CDN/ID 13668423) • OCIS – incident, risk and assurance management system • Origin CMS • ESdat – Origin's monitoring and results database • SAP - Maintenance and workorder system	• Air and dust monitoring in accordance with *Queensland Air Quality Sampling Manual and/or Australian Standard 4323.1:1995 Stationary source emissions method 1: Selection of sampling positions* or Australian Standard AS3580, as appropriate for the relevant measurement. • Activities must not cause an environmental nuisance at a sensitive or commercial place unless alternative arrangements are in place • Ensure equipment is designed, installed and maintained to minimise emissions and to meet approval requirements. • Ongoing monitoring and maintenance programs of plant and equipment, managed through the SAP maintenance system. • Undertaken air dispersion modelling of combustion equipment. Ensure post commissioning of plant and equipment necessary air monitoring is undertaken to verify modelled outputs, as required. • Minimising flaring as far as reasonably practicable through ongoing maintenance and efficiently designed shutdowns and workovers. • Maintenance of Register for fuel burning and combustion equipment. • Undertake air monitoring in response to nuisance complaints, as required. • Maintain all monitoring results in the relevant database.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
Waste Schedule H	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive– Chapter 4 Hazardous Materials and Waste Management (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 10 Water Management (CDN/ID13646431) • Manage Incidents and Learning Core Process • Deliver Projects Core Process • Manage Assets Core Process – Dispose of Assets • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • Waste Management Plan • Origin Collective Intelligence System (OCIS) – incident, risk and assurance management system • Origin Compliance Management System (CMS) • ESdat – Origin's monitoring and results database • Maintenance and workorder system - SAP	• Ensure brine ponds are maintained and inspected in accordance with the requirements of Schedule C and the *Manual for assessing consequence categories and hydraulic performance of structures* (DETSI, 2025). • Manage waste in accordance with the waste hierarchy. • Compliance with the Land Access Code (Department of Resources, 2023). • Compliance with the *Code of Practice for the construction and abandonment of petroleum wells and associated bores in Queensland* Version 2 (Department of Natural Resources, Mines and Energy, 2019). • Use of approved waste processing and disposal facilities for each waste type. • Use of approved waste transport operators. • Ensure waste segregation occurs, where possible. • Ensure relevant waste quantities, movements and incident records are maintained. • Take action to control and respond to spills or releases to minimise or mitigate potential harm to the environment.
Rehabilitation Schedule I	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive– Chapter 2 Biodiversity and Biological (CDN/ID13646431) • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • HSE Risk Controls Directive– Chapter 4 Hazardous Materials and Waste Management (CDN/ID13646431) • Manage Assets Core Process – Decommission and Rehabilitate Assets • Manage Assets Core Process – Dispose of Assets • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • OCIS – incident, risk and assurance management system • Origin CMS • Gas Field Rehabilitation Plan (CDN/ID 31242305)	• Reduced construction footprint as far as reasonably practicable for safe operating purposes (progressive rehabilitation). • Develop a rehabilitation or decommissioning and rehabilitation plan. • Reinstate soils in accordance with relevant soil handling techniques. • Reinstate natural drainage lines and systems. • Establish a stable and non-polluting landform. • In areas of native vegetation, vegetation may be respread over the reinstated area. • Establish ground cover to prevent erosion, this may be done through sowing areas with appropriate seed mixtures in accordance with the post land use requirements. • Hand over infrastructure to landholders in accordance with legislative and approval requirements. • Ensure ongoing monitoring of rehabilitated areas in accordance with approvals, management plans and/or monitoring programs. • Maintain all monitoring records in the relevant database.
Well Construction, Maintenance and Hydraulic Fracturing Activities Schedule J	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942)	• Complete a site-specific Stimulation Risk Assessment. • Complete a well integrity and geological review which then feeds into the stimulation design. • Stimulation design is to be reviewed by SMEs to ensure compliance with approvals and legislation.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
	• HSE Risk Controls Directive (CDN/ID13646431) – Chapter 10 Water Management • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • Deliver Wells Core Process – Hydraulic Fracture Stimulation Compliance Process • MOC Core Process • Manage Incidents and Learning Core process • Manage Information Core Process • Stimulation Risk Assessments • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • Stimulation Impact Monitoring Program (CDN/ID 10515768)	• Undertake chemical screening. • Establish a pre-HFS water quality baseline. • Develop and implement a Stimulation Impact Monitoring Program. • Stimulation is monitored throughout the activity. • Review the stimulation activity in accordance with the relevant Stimulation Impact Monitoring Program and complete necessary post completion reporting. • Maintain monitoring results in the relevant database. • Take action to control and respond to environmental incidents to minimise or mitigate potential harm to the environment.
Community Issues Schedule K	• HSE Framework • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • Gain Access Core Process – Manage Community and Stakeholder Complaints • Manage Incidents and Learning Core Process • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • HSE Incident Management Procedure (CDN/ID 13668423) • OCIS – incident, risk and assurance management system • Origin CMS	• Ensure all complaints are captured in OCIS for tracking, actioning and maintenance of records. • Ensure internal and external notifications are completed in accordance with approval and internal reporting requirements. • Undertake incident investigations using “5 Whys”, as required. • Complete a lessons learnt review, as required. • Compliance with the Land Access Code (Department of Natural Resources and Mines, 2023)
Notification Procedures Schedule L	• HSE Framework • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • Manage Incidents and Learning Core Process • HSE Incident Management Procedure (CDN/ID 13668423) • Management of Change Procedure (CDN/ID 3675673) • Controlled Document Management (CDN/ID 7983067) • OCIS – incident, risk and assurance management system • Origin CMS	• Take action to control and respond to environmental incidents to minimise or mitigate potential harm to the environment. • Maintain the Notifiable Incident, Non-compliance and Enforcement Register • Undertake incident investigations using “5 Whys” methodology as required. • Capture and track incident and their relevant actions through OCIS. • Ensure internal and external incident notifications are completed in accordance with legislative, approval and internal reporting requirements. • Undertake environmental monitoring in response to incidents, as required. • Complete a lessons learnt review, as required.

EA CONDITION / SCHEDULE	INTERNAL PROCESS / MANAGEMENT SYSTEM *(if applicable)*	ENVIRONMENTAL MANAGEMENT STRATEGIES
Organic Production Trial Schedule M	• HSE Policy • HSE System Directive – Chapter 5 Legal and External Obligations (CDN/ID 13636942) • HSE System Directive – Chapter 6 Hazard Identification and Risk Management (CDN/ID 13636942) • HSE Risk Controls Directive (CDN/ID13646431) – Chapter 10 Water Management • HSE Risk Controls Directive – Chapter 5 Land Management and Disturbance (CDN/ID13646431) • Organic Production Trial Management Plan (CDN/ID 38736597)	• Completion of well integrity tests and checks following well workover and prior to trial commencement. • Defining impact zones in accordance with the *Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 2) Managed Aquifer Recharge*. • Establish environmental values and water quality objectives in accordance with *Environmental Protection (Water) Policy 2009* and the *Queensland Water Quality Guidelines 2009*. • Ongoing well monitoring during and post injection activities. • Groundwater bore monitoring during and post injection activities. • Completion and submission of post-trial assessment reports. • Storage of chemicals in accordance with Australian Standards. • Injected nutrient concentrations to be less than ANZECC 2000 Livestock Guidelines values.

7. Rehabilitation Program

In accordance with Section 292 (1)(d)(iii) of the EP Act, the rehabilitation program includes details of rehabilitation of all existing disturbed land and land proposed to be disturbed under each petroleum lease relevant to the EA.

The rehabilitation program includes:

- a rehabilitation plan (Section 7.1)
- a rehabilitation schedule that details the types and areas of rehabilitation proposed to be undertaken within the plan period (Section 7.2); and
- details of existing rehabilitation activities (Section 7.3).

7.1. Rehabilitation Plan

Rehabilitation will be undertaken in accordance with the EA. Under the Spring Gully EA, progressive rehabilitation of significantly disturbed land caused by the carrying out of petroleum activity(ies) (other than constructing pipelines) which are not required for the ongoing conduct of the petroleum activity (ies) must meet the following rehabilitation requirements within the specific timeframes in the EA:

- remediate all contaminated land (e.g. contaminated soils, decommissioned dams containing salt)
- reshape all significantly disturbed land to a stable landform
- re-profile all significantly disturbed land to original contours
- on all significantly disturbed land:
    - re-establish surface drainage lines
    - reinstate the top layer of the soil profile
    - establish groundcover to ensure that erosion is minimised
    - establish vegetation of floristic species composition found in analogue sites; and
- undertake rehabilitation in a manner such that any actual and potential acid sulfate soils in or on the site are either not disturbed, or submerged, or are treated to prevent and / or minimise environmental harm.

All significantly disturbed areas caused by petroleum activities, which are not being or intended to be utilised by the landholder or overlapping tenure holder, must be rehabilitated to meet the following final acceptance criteria measured either against the highest ecological value adjacent land use or the pre-disturbed land use:

- greater than or equal to 70% of native ground cover species richness
- greater than or equal to the total per cent of ground cover
- less than or equal to the per cent species richness of declared plant pest species; and
- where the adjacent land use contains, or the pre-clearing land use contained, one or more regional ecosystem(s), then at least one regional ecosystem(s) from the same broad vegetation group, and with the equivalent biodiversity status or a biodiversity status with a higher conservation value as any of the regional ecosystem(s) in either the adjacent land or pre-disturbed land, must be present.

In areas of disturbance within ESAs, some additional measures may be implemented to promote the area to progress towards its previous natural state. In these areas, the following final rehabilitation criteria must be met:

- greater than or equal to 70% of native ground cover species richness
- greater than or equal to the total per cent ground cover
- less than or equal to the per cent species richness of declared plant pest species
- greater than or equal to 50% of organic litter cover
- greater than or equal to 50% of total density of coarse woody material; and

- all predominant species in the ecologically dominant layer, that define the pre-disturbance regional ecosystem(s) are present.

7.1.1. Rehabilitation methods

The rehabilitation methodology for an area will be developed on a site-specific/case-by-case basis, however the steps outlined below demonstrates the general approach to transition an area to progressive or final rehabilitation criteria:

1. Landform re-establishment, which may include backfilling, reinstating the landform (i.e., re-contouring, reinstating drainage lines), compaction relief and fertiliser application
2. Topsoil reinstatement from stockpiles established during construction clearing
3. Vegetation respreading, where required
4. Establishment of erosion and sediment controls, where applicable
5. Revegetation, which may include and is dependent on the final land use, natural regeneration, sowing of crops, direct seeding of native species and tubestock planting; and
6. Rehabilitation monitoring.

The steps may vary and may include a combination of the options outlined in some of the individual steps, this will be driven by the type of rehabilitation being undertaken (progressive or final), characteristics of an area and final land use to be achieved.

7.1.2. Reinstatement measures

Following construction, reinstatement occurs to reduce the construction footprint back to an operational footprint, and to establish a stable area for the operational land use. Reinstatement measures involve returning earthen layers to a design that facilitate future rehabilitation, with consideration of the following:

- the final land use
- revegetation species and methods
- land stabilisation and soil amelioration requirements; and
- details of any site-specific measures that may differ from the general methods, including justification demonstrating an equivalent or better environmental outcome.

Infrastructure walk downs are conducted to identify and address any land management defects post construction prior to completion of construction and handover of reinstated areas for ongoing operational use. On completion of construction reinstatement, monitoring is conducted to ensure ongoing performance of these sites.

7.1.3. Rehabilitation measures

When an area is no longer required for operational purposes and is not being or intended to be utilised by the landholder or overlapping tenure holder, decommissioning and final rehabilitation occurs.

Decommissioning and rehabilitation plans will address the site-specific measures to meet the final acceptance criteria in the EA. The following requirements are considered:

- exploring opportunities for reuse, repurpose or retention of infrastructure for a beneficial use
- removing surface and underground infrastructure that may impede final rehabilitation
- decontaminating and rehabilitating surroundings, and as required from disturbance; and
- stabilising the landform and revegetate with consideration to the rehabilitation objectives (e.g., pasture, cropping or native vegetation establishment).

All significant disturbances are to be rehabilitated in a way that will meet the final acceptance criteria when compared to the adjacent land use or pre-disturbance land use unless there is an alternative intended land use to be utilised by the landholder or an overlapping tenure holder.

Table 5 below outlines the completed reinstatement and rehabilitation undertaken for the EA.

The relevant final land use for areas to be reinstated and rehabilitated during this Plan of Operations period is outlined in Table 4 under '*Post-Operational Land use*'.

7.1.4. Rehabilitation Monitoring

Monitoring is undertaken in accordance with the EA to ensure rehabilitated areas meet the progressive and final rehabilitation criteria. Following completion of progressive rehabilitation, monitoring occurs at various intervals to ensure that the areas are safe, stable and non-polluting and are progressing towards rehabilitation requirements. Following final rehabilitation, monitoring is conducted to ensure the area meets the final acceptance criteria.

7.2. Rehabilitation Schedule

Table 4 below provides a schedule of rehabilitation activities proposed to be undertaken during the Plan of Operations period, and summarises rehabilitation required for all existing disturbance. The table follows the template provided in Appendix 3 of the *Plan of Operations Application Form* (ESR/2018/4340).

Table 4: Rehabilitation schedule

Domain	Activity	Location	Area (ha)	Post-Operational Land use	Timing (when)	Rehabilitation Activities	Rehabilitation works already undertaken
Domain 2: Roads, Tracks, Laydown and Borrow Pits	Borrow pits	PL195 PL204 PL419	6.98	Grazing Cropping Forestry Mining Native vegetation (ESAs)	End of operational life or end of the project.	All existing borrow pits are likely to be retained until the end of the project and rehabilitated; or handed over to a landholder in accordance with the EA conditions and landholder agreements. Rehabilitation activities will include land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation.
	Access Tracks (6m wide)	PL195 PL200 PL204 PL268 PL414 PL415 PL416 PL417 PL418 PL419	242.60		End of operational life or end of the project.	All existing and proposed access tracks are likely to be retained until the end of the project and rehabilitated; or handed over to a landholder in accordance with the EA conditions and landholder agreements. Rehabilitation activities will involve land re-profiling, reinstatement of topsoil, grading and seeding, and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation.
	Laydown yards	PL195 PL204 PL268 PL414 PL415 PL416 PL417 PL418	104.99		Progressively over the life of Project, including this Plan of Operations period	During the Plan of Operations period, it is likely that 20% of the proposed laydown areas will be rehabilitated approximately 16.22 ha). These laydown yards used to support proposed activities during construction (i.e. water storage tanks, or gathering lines) and can be rehabilitated once construction in these areas is completed. Laydowns yards that are used to support on-going operational activities will either be retained until the end of the project; or handed over to landholders in accordance with the EA and landholder agreements. Rehabilitation activities involve land re-profiling, reinstatement of topsoil, grading and seeding, and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation.
Domain 3: Camps, Buildings, Sewage Treatment Plant	Temporary Camps	PL204 PL417 PL414 PL415 PL416 PL418	16.51	Grazing Cropping Forestry Mining Native vegetation (ESAs)	Progressively over the life of Project, including this Plan of Operations period	During the Plan of Operations period, it is likely that 20% of the proposed temporary camps will be rehabilitated (approx. 2.2 ha). Temporary camps are progressively rehabilitated over the life of the Project, as they moved throughout the Project area to support construction activities. Temporary camps used to support on-going operational activities will either be retained until the end of the project; or handed over to landholders in accordance with the EA and landholder agreements. Rehabilitation activities, following removal of above ground infrastructure and stabilising material, will involve re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions.	Refer to Table 5 for completed rehabilitation. Progressive rehabilitation has commenced at the Spring Gully Operations Camp (132 persons). The camp has been decommissioned and infrastructure removed.
	Permanent Camp	PL195	4.05		End of operational life or end of the project.	The existing permanent camp (Spring Gully Village) will likely be retained until the end of the project and rehabilitated; or handed over to a landholder in accordance with the EA conditions and landholder agreements. Rehabilitation activities, following removal of above ground infrastructure and stabilising material and disconnecting electrical and mechanical lines, includes land re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions.	Refer to Table 5 for completed rehabilitation. The site is still active. Reinstatement activities to reduce the construction area to an operational footprint has occurred (referred to as Laydown Yard in Table 5).
	Buildings	PL204 PL418	2.06		End of operational life or end of the project.	All existing buildings (site administration facilities) are likely to be retained until the end of the project and rehabilitated; or handed over to a landholder in accordance with the EA conditions and landholder agreements. Rehabilitation activities, following removal of above ground infrastructure and stabilising material and disconnecting electrical and mechanical lines, includes land re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred (referred to as Laydown Yard in Table 5).

Domain	Activity	Location	Area (ha)	Post-Operational Land use	Timing (when)	Rehabilitation Activities	Rehabilitation works already undertaken
	Sewage Treatment Plants (STPs)	PL195	3.3		Progressively over the life of Project, including this Plan of Operations period.	During the Plan of Operations period, STPs associated with temporary camps will be progressively rehabilitated. STPs associated with permanent camps or site buildings are likely to be retained until the end of project life and rehabilitated. Rehabilitation activities, following removal of above ground infrastructure and stabilising material and disconnecting electrical and mechanical lines, includes land re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions. Wastewater and tank removal will also be required.	Refer to Table 5 for completed rehabilitation for temporary camps/STPs.
Domain 4: Power Generation and Distribution	Substation	PL204 PL417	0.27	Grazing Cropping Forestry Mining Native vegetation (ESAs)	End of operational life or end of the project.	Substations will likely be retained until the end of project life and rehabilitated. Rehabilitation activities, following removal of above ground infrastructure and stabilising material, and disconnecting electrical and mechanical lines, includes land re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions. Diesel removal may also be required.	Nil, sites are yet to be constructed.
	Communication Towers	PL195 PL200 PL204 PL268 PL414 PL415 PL416 PL417 PL418 PL419	2.75		End of operational life or end of the project.	Communication Towers are likely to be retained until the end of the project and either be transferred to an authorised third party (in accordance with legislative requirements); or decommissioned and rehabilitated. Rehabilitation activities, following removal of above ground infrastructure and stabilising material and removal of electronics, will include land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce construction areas to an operational footprint has occurred at existing communication towers (referred to as Laydown Yard in Table 5).
Domain 5: Well Pads and Associated Infrastructure	Well pads (including appraisal wells, CSG wells and monitoring bores)	PL195 PL200 PL204 PL268 PL414 PL415 PL416 PL417 PL418 PL419	238.71	Grazing Cropping Forestry Mining Native vegetation (ESAs)	Progressively over the life of Project, including this Plan of Operations period	During the Plan of Operations period, it is likely that 50% of the well leases associated with proposed wells will be reinstated from a construction footprint (approx. 1 ha per lease) to an operational footprint (approx. 0.3 ha per lease) (46.62 ha). This routinely occurs once well construction is complete and includes grading and seeding of the construction footprint and re-establishment of ground cover. Shut-in wells may be P&A during the Plan of Operations period, once a decision is made that the well is no longer required for the Project. Operational wells are retained until the end of operational life of the well. Rehabilitation activities, following removal of above ground infrastructure and stabilising material, and cutting the casing below grade, includes land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use. Final P&A activities includes removing signage and fencing, and excavating, cut/cap and backfilling the well area.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction areas to an operational footprint has occurred at existing wells.
Domain 6: Pipelines	Right of Way (RoW)	PL195 PL200 PL204 PL268 PL414 PL415 PL416 PL417 PL418 PL419	450.44	Grazing Cropping Forestry Mining Native vegetation (ESAs)	Progressively over the life of Project, including this Plan of Operations period.	During the Plan of Operations period, proposed RoWs will be reinstated from a construction footprint (approx. 18m wide) to an operational footprint (approx. 6m wide). This routinely occurs along a RoW as construction is complete and the pipeline trench is backfilled and includes reinstatement of topsoil and re-establishment of ground cover. Rehabilitation activities, following removal of above ground infrastructure and stabilising material, includes land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred at existing RoWs.
	Crossings (road/creek)		220 crossings			Crossings will be rehabilitated as part of pipeline RoW rehabilitation activities, as outlined above.	
	Low point drain		878 points			Low point drains will be rehabilitated as part of pipeline RoW rehabilitation activities, as outlined above.	

Domain	Activity	Location	Area (ha)	Post-Operational Land use	Timing (when)	Rehabilitation Activities	Rehabilitation works already undertaken
	Pig launchers / receivers	PL195 PL204 PL268	3.9	Grazing Cropping Forestry Mining Native vegetation (ESAs)	End of operational life or end of the project.	Pig launchers and receivers will be decommissioned and removed at the end of project life. Rehabilitation activities, following removal of above ground infrastructure and stabilising material, and the disconnection of electrical and mechanical skids, will include re-profiling, reinstatement of topsoil and re-establishment of ground cover in accordance with the EA conditions and the agreed final land use.	Nil, sites are still active.
Domain 7: Gas Processing	Gas Processing Facilities (GPFs)	PL195 PL204	18.60	Grazing Cropping Forestry Mining Native vegetation	End of operational life or end of the project.	GPFs will either be transferred to an authorised third party (in accordance with legislative requirements); or decommissioned and rehabilitated at the end of project life. Rehabilitation activities, following purging of vapours and disposal of liquids, disconnecting electrical and mechanical lines and the removal of above ground infrastructure and stabilising material, includes addressing any identified contamination, land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred at existing GPFs (referred to as Laydown Yard in Table 5).
Domain 9: Water Treatment Plants and Transfer Stations	Water Treatment Plant (WTP)	PL195	1.51	Grazing Cropping Forestry Mining Native vegetation	End of operational life or end of the project.	The Spring Gully WTP will either be transferred to an authorised third party (in accordance with legislative requirements); or decommissioned and rehabilitated at the end of project life. Rehabilitation activities, following removal of sludge and liners, the removal of above ground infrastructure and stabilising material, includes addressing any identified contamination, land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred at the existing WTP (referred to as Laydown Yard in Table 5).
	Water Transfer stations	PL204 PL268	1.64		End of operational life or end of the project.	Water transfer stations (or water gathering stations) will either be transferred to an authorised third party (in accordance with legislative requirements); or decommissioned and rehabilitated at the end of project life. Rehabilitation activities, following removal of sludge and liners, the removal of above ground infrastructure and stabilising material, includes addressing any identified contamination, land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred at existing water transfer stations (referred to as Laydown Yard in Table 5).
Domain 10: Water Storage Infrastructure (Dams/Ponds and Tanks)	Dams	PL195 PL204	147.11	Grazing Cropping Forestry Mining Native vegetation	End of operational life or end of the project, including this Plan of Operations period.	Dams will be maintained until they are no longer required to support petroleum activities); or handed over to landholders in accordance with the EA and landholder agreements; or decommissioned and rehabilitated at the end of project life. During the Plan of Operations Period, rehabilitation of Spring Gully Pond A will continue (74.2ha). Spring Gully Pond A Cells 2,3,4 and 5 have been decommissioned to no longer receive inflow. Rehabilitation activities include addressing any identified contamination, liner and sludge removal, land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use. Waste will be transported to a disposal facility.	Refer to Table 5 for completed rehabilitation. Reinstatement activities to reduce the construction area to an operational footprint has occurred at existing dams (referred to as Laydown Yard in Table 5).
	Tanks	PL195 PL417 PL204	5.86		End of operational life or end of the project.	All existing tanks are likely to be maintained until they are no longer required to support petroleum activities, which may be before or at the end of the project life. When a tank is no longer required it will either be rehabilitated; or handed over to landholders in accordance with the EA and landholder agreements. During the Plan of Operations period, reinstatement activities will occur at the proposed two tank sites once construction has been completed. This has been included in the proposed Laydown Yard area. Rehabilitation activities, following disconnection of electrical and mechanical lines and the removal of above ground infrastructure and stabilising material, includes addressing any identified contamination, land stabilisation, re-profiling, reinstatement of topsoil and re-establishment of groundcover in accordance with the agreed final land use. Waste will be transported to a disposal facility.	Refer to Table 5 for completed rehabilitation. Some water storage infrastructure has been decommissioned and removed.

7.3. Completed rehabilitation

Table 5 below summarises the completed rehabilitation activities undertaken for the Spring Gully EA. This is supported by spatial information that has been previously provided.

Table 5 Summary of Completed Rehabilitation

Domain	Activity	Area (ha)	Rehabilitation activities
Domain 2: Roads, Tracks, Laydowns and Borrow Pits	Tracks	31.70	Access tracks rehabilitated to date have achieved a stable landform in accordance with the progressive rehabilitation requirements of the EA.
	Laydowns (includes Extra Work Spaces)	118.83	Laydown areas rehabilitated to date have achieved a stable landform in accordance with the progressive rehabilitation requirements of the EA. This total includes the reinstated areas to reduce the construction footprint to an operational footprint in the extra work spaces surrounding facilities (including GPFs, WGS, dams, camps, communication towers).
	Borrow Pit	5.92	One borrow pit and gravel pit have been rehabilitated to date, and have achieved a stable landform in accordance with the progressive rehabilitation requirements of the EA.
Domain 3: Camps and Buildings	Temporary Camp	11.0	Seven temporary camps have been rehabilitated to date, including the removal of associated sewerage treatment plants. The temporary camps rehabilitated to date have achieved a stable landform in accordance with the progressive rehabilitation requirements of the EA.
Domain 5: Well Pads and Associated Infrastructure	Well pads	379.16	199 wells have been Plugged and Abandoned (P&A), with rehabilitation completed. This total also includes reinstatement of suspended and operating well pads, whereby approximately 0.7ha of a lease is reinstated following the completion of well construction (1ha construction footprint is reduced to an operational footprint of 0.3ha (in most instances)).
Domain 6: Pipelines	Right of Way (RoW)	1023.56	Approximately 19m of RoW is reinstated following the completion of construction of the gathering line, where the 25m construction RoW is reduced to an operational footprint of 6m (in most instances).
Domain 9: Water Storage	Dams	10	The Taloona Dam (cells 1, 2 and 3) has been rehabilitated. The rehabilitated area has achieved a stable landform in accordance with the progressive rehabilitation requirements of the EA.
	Water Tanks / Water storage infrastructure	16.26	Water storage infrastructure has been decommissioned and removed. Water gathering stations and tanks that have been decommissioned and rehabilitated have achieved stable landforms in accordance with the EA conditions.
TOTAL REHABILITATION		1596.43	