



## Integrated Gas

# AUSTRALIA PACIFIC LNG ANNUAL ENVIRONMENTAL RETURN EPBC 2009/4976 2020-2021

EPBC 2009/4976 Pipelines Annual Environmental Return 2020-2021

### Review record

Rev	Date	Reason for issue	Reviewer/s	Consolidator	Approver
A	9/03/2021	Issued for content review	G Wicks/ T Hancox	M Dreyer	-
0	11/03/2021	Issued for Information	T Hancox	M Dreyer	G. Williams

Review due: NA

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### THE THREE WHATS

**What** can go wrong?  
**What** could cause it to go wrong?  
**What** can I do to prevent it?

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## 1. Purpose

The purpose of this Report is to report on compliance with the conditions of EPBC 2009/4976.

Condition 54 of EPBC 2009/4976 requires an Annual Environmental Return to be produced to identify compliance, non-compliance, impacts and amendments relating to the conditions of approval and Matters of National Environmental Significance (MNES). This Report has been prepared in accordance with condition 54.

Condition 54 requires that:

*The proponent must produce an Annual Environmental Return which:*

- a. *Addresses compliance with these conditions;*
- b. *Records any unavoidable adverse impacts on MNES, mitigation measures applied to avoid adverse impacts on MNES; and any rehabilitation work undertaken in connection with any unavoidable adverse impact on MNES;*
- c. *Identifies all non-compliance with these conditions; and*
- d. *Identifies any amendments needed to plans to achieve compliance with these conditions.*

Additionally, in accordance with condition 55, the Annual Environmental Return will be published on the Project website within 20 calendar days of the anniversary date of the Approval.

## 2. Scope

The reporting period relevant to this report is 21 February 2020 to 20 February 2021 inclusive. The scope of this Annual Environmental Return relates to the Australia Pacific LNG gas pipeline (with the exception of Ruby Spur gas pipeline). Compliance with Federal Approvals EPBC 2011/6221 and EPBC 2009/4794 are addressed in separate reports.

## 3. Acronyms/Definitions

Definitions for terms and acronyms can be found in Table 1 below.

**Table 1: Terms and Acronyms**

Term/Acronym	Definition/Expansion
AER	Annual Environmental Return
CMTF	Management and Translocation Plan for <i>Cycas megacarpa</i>
Department	Department of the Environment and Energy
EA	Environmental Authority
EIS	Environmental Impact Statement
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EM Plan	Environmental Management Plan
HDD	Horizontal Directional Drilling
Ha	hectare
MNES	Matters of National Environmental Significance
ROW	Right of Way
OPI	Opportunities for improvement
PPL	Petroleum Pipeline Licence
QGC/QCLNG	Queensland Gas Company/ Queensland Curtis Liquefied Natural Gas
SDPWO Act	<i>State Development Public Works Organisation Act 1971</i>

## 4. Annual Environmental Return

### 4.1 Compliance

An assessment of compliance with the conditions of EPBC Approval 2009/4976 is set out in Table 2. It is noted that construction activities associated with the pipeline and associated infrastructure were completed during previous reporting periods. With the completion of the construction stage, a number of conditions were closed out.

### 4.2 Non-Compliances

No non-compliances with EPBC 2009/4976 were identified during the reporting period.

Table 2: Compliance EPBC 2009/4976

Condition Number	Condition	Status	Compliance Statement
<b>Project Area</b>			
1	The pipeline route and ROW is the area substantially depicted in the map at Attachment 1 and in the EIS and supplementary information provided pursuant to section 35(2) of the SDPWO Act 1971 (Qld).	Closed	No updates since the 2013-2014 Annual Environmental Return (AER). The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.
<b>Environmental Management Plan (excluding the Narrows)</b>			
2	The proponent must prepare an Environmental Management Plan to manage the impacts of construction, operation and decommissioning of the pipeline (other than in relation to the Narrows on listed threatened species and ecological communities, listed migratory species and values of the World and National Heritage-listed Great Barrier Reef).	Compliant	An Environmental Management Plan (EM Plan) was prepared for the pipeline during construction activities (Main Pipeline EM Plan Q-1801-15-MP-0002) as well as the Operational Environmental Management Plan Pipeline Operations and Maintenance CDN/ID5242206. These plans address these requirements.
3	The Environmental Management Plan must include: <ul style="list-style-type: none"> <li>a. Provisions for detailed pre-clearance surveys by a suitably qualified ecologist along the entire length of the ROW, in accordance with conditions 5 to 10;</li> <li>b. Measures to minimise native and riparian vegetation clearance and to minimize the impact on listed species, their habitat and ecological communities in accordance with management plans required for MNES under this approval;</li> <li>c. Measures to manage the impact of clearing on each listed species and ecological community in accordance with management plans required for MNES under this approval;</li> <li>d. Measures to regenerate vegetation on the ROW where natural regeneration is not successful;</li> <li>e. Measures to minimise impacts on fauna during pipeline construction including: <ul style="list-style-type: none"> <li>i. Measures to protect MNES in the areas of the ROW where trenching is being undertaken, including measures to</li> </ul> </li> </ul>	Compliant	The Main Pipeline EM Plan Q-1801-15-MP-0002 satisfies this condition.

Condition Number	Condition	Status	Compliance Statement
	<p>exclude listed terrestrial fauna from gaining access to those areas of the ROW where trenching is currently being undertaken</p> <ul style="list-style-type: none"> <li>ii. Mechanisms to allow fauna to escape from the pipeline trench</li> <li>iii. Daily morning surveys for trapped fauna</li> <li>iv. Mechanisms for a suitably qualified person to relocate fauna</li> <li>v. Record keeping for all survey, removal and relocation activities.</li> </ul> <p>f. Machinery wash down procedures and ongoing monitoring to minimise the spread and establishment of weeds in the ROW. Monitoring of weed infestations within disturbed areas must occur at least monthly during construction and then quarterly for a period of two years after completion of construction. Appropriate weed control measures must be implemented. After the two-year period, the frequency of monitoring may be reconsidered by the proponent, based on success of control measures, the level of infestations and pipeline maintenance activities;</p> <p>g. Measures to manage and control feral animals that may spread due to the establishment of the ROW;</p> <p>h. Management of ignition sources during construction, maintenance and decommissioning of the pipeline to protect habitat values from wild fire;</p> <p>i. Measures for the management of acid sulphate soils.</p>		
4	<p>The Environmental Management Plan must be submitted for the approval of the Minister. Commencement must not occur without approval. The approved plan must be implemented.</p>	Compliant	<p>The original Main Pipeline EM Plan (Q-1801-15-MP-0002) was approved by the Minister 30 November 2011. Construction on the Main pipeline system commenced in July 2012.</p> <p>The EM Plan Q-1801-15-MP-0002 version 7 was approved by the Minister on 8 March 2013.</p>

Condition Number	Condition	Status	Compliance Statement
<b>Pre-clearance Survey</b>			
5	<p>Before the clearance of native vegetation in the pipeline ROW, the proponent must:</p> <ul style="list-style-type: none"> <li>a. Undertake pre-clearance surveys for the presence of listed threatened species and migratory species, their habitat and listed ecological communities;</li> </ul> <p>Alternatively, where recent surveys have already been undertaken and those surveys meet the Department's requirements for survey for the relevant MNES, the proponent may elect to develop management plans based on those surveys in accordance with the requirements of condition 8.</p>	Closed	<p>Pre-clearance surveys commenced in September 2011 and were completed during the 2013-2014 reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
6	<p>Pre-clearance surveys must:</p> <ul style="list-style-type: none"> <li>a. For each listed species, be undertaken in accordance with the Department's survey guidelines in effect at the time of the survey. This information can be obtained from the Department's website;</li> <li>b. Be undertaken by a suitably qualified ecologist approved by the Department in writing;</li> <li>c. Document the survey methodology, results and significant findings in relation to MNES;</li> </ul> <p>Apply best practice site assessment and ecological survey methods appropriate for each listed threatened species, migratory species, their habitat and listed ecological communities.</p>	Closed	<p>All pre-clearance surveys were conducted in accordance with the approval by the Department approved ecologists.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
7	<p>Pre-clearance survey reports (which document the methods used and the results obtained) must be published by the proponent, on its website and be provided to the Department on request.</p>	Closed	<p>All pre-clearance surveys are published on the Australia Pacific LNG website (<a href="http://www.aplng.com.au/environment/pre-clearance-surveys">http://www.aplng.com.au/environment/pre-clearance-surveys</a>).</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>

Condition Number	Condition	Status	Compliance Statement
8	<p>If a listed threatened species, migratory species or their habitat, or a listed ecological community is encountered during the surveys undertaken as required by condition 5 and is not specified in either condition 11 and 12, the proponent must submit a separate management plan for each species or ecological community to manage the unexpected impacts of clearing. In relation to each listed species or ecological community, each plan must address:</p> <ul style="list-style-type: none"> <li>a. The relevant characteristics describing each species, species habitat or ecological community;</li> <li>b. A map of the location of species, species habitat or ecological community in proximity to the ROW;</li> <li>c. Measures that will be employed to avoid impact on the species, species habitat or ecological community;</li> <li>d. A quantification of the unavoidable impact (in hectares and/or individual specimens);</li> <li>e. Where impacts are unavoidable and a disturbance limit is not specified for the listed species or ecological community under condition 11, propose offsets to compensate for the impact on the population of the species, species habitat or the ecological community;</li> <li>f. Current legal status (under the EPBC Act);</li> <li>g. Known distribution.</li> </ul> <p>For listed species, each plan must also include:</p> <ul style="list-style-type: none"> <li>a. Known species populations and their relationships within the region;</li> <li>b. Biology and reproduction;</li> <li>c. Preferred habitat and microhabitat including associations with geology, soils, landscape features and associations with other native fauna and/or ecological communities;</li> <li>d. Anticipated threats to MNES from pipeline construction, operation and decommissioning;</li> <li>e. Management practices and methods to minimize impacts such as:                             <ul style="list-style-type: none"> <li>i. Site rehabilitation timeframes, standards and methods</li> <li>ii. Use of sequential clearing to direct fauna away from impact zones</li> </ul> </li> </ul>	Closed	<p>No additional species /habitat were encountered in the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>



Condition Number	Condition	Status	Compliance Statement
	<ul style="list-style-type: none"> <li>iii. Re-establishment of native vegetation in linear infrastructure corridors</li> <li>iv. Handling practices for flora specimens</li> <li>v. Translocation and/or propagation practices and monitoring for translocation/propagation success</li> <li>vi. Monitoring methods including rehabilitation success and recovery.</li> </ul> <p>Reference to relevant conservation advice, recovery plans or other policies, practices, standards or guidelines relevant to MNES published or approved from time to time by the Department.</p>		
9	Each plan required under condition 8 must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Closed	<p>The condition was not triggered during the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
10	If, during construction a threatened species or migratory species or their habitat, or a listed ecological community is encountered and is not specified in the table at condition 11 or 12, the proponent must submit a separate management plan for each species or ecological community in accordance with condition 8 within 20 business days of encountering that MNES. Work must not continue at the construction site where the MNES is encountered until the relevant management plan has been approved. Each approved plan must be implemented.	Closed	<p>No additional species /habitat were encountered in the reporting period.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>

Disturbance Limits			
11	<p>(a) The following maximum disturbance limits apply to any disturbances authorized for unavoidable impacts on listed threatened communities and potential habitat for listed threatened species or migratory species as a result of the construction, operation and decommissioning of the pipeline (and all associated activities).</p>	Closed	<p>(a) No disturbance during the reporting period.                      (b) Disturbance activities were completed at the end of the 2013-2014 reporting period. No changes were made to the reconciliation statement provided in previous AER, refer to Table 3 of this report.</p>
<p><b>Table 1: EPBC Listed threatened ecological communities</b></p>			
<p><b>Ecological community</b></p>		<p><b>EPBC Status</b></p>	<p><b>Disturbance Limit (ha)</b></p>
<p>Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant)</p>		<p>Endangered</p>	<p>5.41</p>
<p>Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions</p>		<p>Endangered</p>	<p>0.26</p>
<p><b>Species</b></p>		<p><b>EPBC Status</b></p>	<p><b>Disturbance Limit (ha)</b></p>
<p><i>Cycas megacarpa</i> (Large-fruited Zamia)</p>		<p>Endangered</p>	<p>470 individuals</p>
<p><i>Cadellia pentastylis</i> (Ooline)</p>		<p>Vulnerable</p>	<p>10 individuals</p>
<p><i>Xeromys myoides</i> (Water Mouse)</p>		<p>Vulnerable</p>	<p>15.6</p>
<p>(b) The proponent must prepare a reconciliation statement of impacts against the agreed limit of disturbance, as defined in condition 11(a). It must be updated by the proponent every 12 months from commencement until construction is complete.</p>			
12	<p>The proponent must prepare a management plan for each species in the table below. Each plan must be prepared in accordance with the requirements of condition 8.</p>	Closed	<p>As reported in the 2013-2014 AER, Species Management Plans were prepared in accordance with the condition.</p>
<p><b>Table 2: Species management plans required before commencement</b></p>			

	<table border="1"> <thead> <tr> <th>Listed flora species</th> <th>EPBC Act Status</th> </tr> </thead> <tbody> <tr> <td><i>Philotheca sporadica</i></td> <td>Vulnerable</td> </tr> <tr> <td><i>Cadellia pentastylis</i> (Ooline)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Cupaniopsis shirleyana</i> (Wedge-leaf Tuckeroo)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Bothriochloa biloba</i> (Lobed Blue-grass)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Polianthum minutiflorum</i> (Small-flowered polianthion)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Eucalyptus virens</i> (Shiny-leaved Ironbark)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Quassia bidwillii</i> (Quassia)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Tylophora linearis</i> (Slender tylophora)</td> <td>Endangered</td> </tr> <tr> <td><i>Westringia parvifolia</i> (Small-leaved westringia)</td> <td>Vulnerable</td> </tr> <tr> <th>Listed fauna species</th> <th>EPBC Act Status</th> </tr> <tr> <td><i>Furina dunmalli</i> (Dunmall's Snake)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Egernia rugosa</i> (Yakka Skink)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Geophaps scripta scripta</i> (Squatter pigeon – southern)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Chalinolobus dwyeri</i> (Large-eared Pied Bat)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Xeromys myoides</i> (Water Mouse)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Delma torquate</i> (Collared Delma)</td> <td>Vulnerable</td> </tr> <tr> <td><i>Denisonia maculate</i> (Ornamental Snake)</td> <td>Vulnerable</td> </tr> </tbody> </table>	Listed flora species	EPBC Act Status	<i>Philotheca sporadica</i>	Vulnerable	<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	<i>Cupaniopsis shirleyana</i> (Wedge-leaf Tuckeroo)	Vulnerable	<i>Bothriochloa biloba</i> (Lobed Blue-grass)	Vulnerable	<i>Polianthum minutiflorum</i> (Small-flowered polianthion)	Vulnerable	<i>Eucalyptus virens</i> (Shiny-leaved Ironbark)	Vulnerable	<i>Quassia bidwillii</i> (Quassia)	Vulnerable	<i>Tylophora linearis</i> (Slender tylophora)	Endangered	<i>Westringia parvifolia</i> (Small-leaved westringia)	Vulnerable	Listed fauna species	EPBC Act Status	<i>Furina dunmalli</i> (Dunmall's Snake)	Vulnerable	<i>Egernia rugosa</i> (Yakka Skink)	Vulnerable	<i>Geophaps scripta scripta</i> (Squatter pigeon – southern)	Vulnerable	<i>Nyctophilus timoriensis</i> (Eastern Long-eared Bat)	Vulnerable	<i>Chalinolobus dwyeri</i> (Large-eared Pied Bat)	Vulnerable	<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	<i>Delma torquate</i> (Collared Delma)	Vulnerable	<i>Denisonia maculate</i> (Ornamental Snake)	Vulnerable		<p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
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13	<p>Each management plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.</p>	Closed	<p>Activities commenced upon receipt of approval. No update since 2013-2014 AER.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>																																						

14	Disturbance of vegetation related to the construction and maintenance of the pipeline must be confined to the ROW. Any proposed siting of construction camps, vehicle access tracks, extra workspaces and pipe laydown areas outside of the ROW during construction must be undertaken so as to minimise potential adverse impacts on MNES.	Closed	No non-compliances were identified.  The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.
Offset - <i>Cycas megacarpa</i>			
15	<p>To offset the unavoidable impacts to <i>Cycas megacarpa</i> the proponent must:</p> <ul style="list-style-type: none"> <li>a. Legally protect the environmental values of an area of at least 141 ha as an offset (the "offset area") for receiving no less than 1,800 and up to 2,820 translocation and propagated individuals (based on 1:6 ratio of the number of <i>Cycas megacarpa</i> individuals disturbed) by: <ul style="list-style-type: none"> <li>i. within 44 months of the date of this approval: <ul style="list-style-type: none"> <li>I) implementing measures to secure a legal interest in a suitable offset area;</li> <li>II) implementing measures to maintain and improve the ecological condition of the offset area including control and management of weeds, fire, feral animals, access and grazing; and</li> <li>III) implementing measures to protect the existing <i>Cycas magacarpa</i> population within offset area; and</li> </ul> </li> <li>ii) within 56 months of the date of this approval; securing the offset area to ensure that it is protected in perpetuity;</li> </ul> </li> <li>b. Identify alternative recruitment methods if it is considered unlikely that translocation and propagation will be successful;</li> <li>c. Notify the Department in writing of the acquisition or transfer of ownership of the area identified in condition 15(a) within one month of securing the land;</li> <li>d. If the proponent proposes any action within a proposed offset area, other than actions related to managing that area as an offset property, approval must be obtained, in writing from the Department. In seeking Departmental approval the proponent must provide a detailed assessment of the proposed action including a map identifying where the action is proposed to take place and an assessment of all associated adverse</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>a. Closed. July 2014, access to the recipient site was secured through the execution of the Offset Agreement with the Inverness landholder. July 2015, the Inverness offset site was legally secured and protected via a Voluntary Declaration under the Vegetation Management Act 1999 (VM Act) <ul style="list-style-type: none"> <li>i) Closed in as per I) to-III) below. <ul style="list-style-type: none"> <li>I) Closed. July 2014, access to the recipient site was secured through the execution of the Offset Agreement with the Inverness landholder. July 2015, the Inverness offset site was legally secured and protected via a Voluntary Declaration under the VM Act.</li> <li>II) Closed. Origin successfully translocated and planted into the Inverness offset area 261 salvaged cycads from the Australia Pacific LNG pipeline right of way in September 2014. Since then, over 2,300 propagated cycads have been planted into the Inverness offset area. Implementation of the Inverness Offset Area Management Plan (OAMP; Q-LNG01- 15-MP-0544, Revision 2), approved May 2015, has also been occurring. This ensures measures to maintain and improve the ecological condition of the offset area including control and management of weeds, fire, feral</li> </ul> </li> </ul> </li> </ul>

	<p>impacts on MNES. If the Department agrees to the action within the proposed offset site, the area identified for the action must be excised from the proposed offset and alternative offsets secured of equal or greater environmental value in relation to the impacted MNES;</p> <p>e. Demonstrate that the measures for securing and managing the offset will ensure that the offset is protected in perpetuity.</p>		<p>animals, access and grazing are being undertaken.</p> <p>III) Closed. The existing cycad population within the Inverness offset area benefits from the ongoing implementation of the management and monitoring actions as per the approved Inverness OAMP, together with the legal security and protection of the Inverness offset area provided by the Voluntary Declaration.</p> <p>ii) Closed. The Inverness Offset area has been legally secured and protected via a Voluntary Declaration under the VM Act.</p> <p>The Inverness Offset Area Management Plan (Revision 2, Q-LNG01-15-MP-0544) was approved in May 2015 by Commonwealth and State governments. In July 2015, the offset area was then legally secured and protected by a voluntary declaration under the Vegetation Management Act 1999.</p> <p>Phase three of the <i>C. megacarpa</i> program has commenced, with 309 propagated seedlings planted in July 2015. In May 2017 a further 2014 propagated seedlings were planted at Inverness. A total of 2310 individuals are currently alive and being maintained. This is approximately 510 above the 1800 individuals required to be established in the offset area.</p> <p>b. Closed. Origin has successfully translocated, propagated and planted cycads into the Inverness offset area.</p>
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			<ul style="list-style-type: none"> <li>c. Closed. The Department was notified both when the Offset Agreement was executed with the landholder and when the offset area was legally secured and protected via a Voluntary Declaration under the VM Act.</li> <li>d. d. Not applicable. No non-offset activities are proposed within the Inverness offset area.</li> <li>e. Closed. Through the executed Offset Agreement with the landholder, legal security and protection of the offset area via a Voluntary Declaration under the VM Act, as well as the implementation of the approved Inverness Offset Area Management Plan, appropriate measures for securing and managing the offset are in place to ensure it is protected in perpetuity.</li> </ul>
	<b><i>Cycas megacarpa</i> management plan</b>		
16	The proponent must prepare a <i>Cycas megacarpa</i> Management Plan in consultation with an expert approved by the Department in writing.	Closed	The <i>Cycas megacarpa</i> Management and Translocation Plan (CMTP) (Q-LNG01-15-MP-0118) was initially submitted in December 2011. The CMTP was updated and approved on 26 November 2014. This condition has been closed since November 2014.

<p>17</p>	<p>The <i>Cycas megacarpa</i> management plan must include:</p> <ul style="list-style-type: none"> <li>a. Measures to ensure all <i>Cycas megacarpa</i> within the ROW are avoided. If avoidance is not possible, individual plants must be removed and kept offsite and replanted in the same location, or alternatively translocation. Where it can be demonstrated that removal and translocation of individuals is unlikely to succeed, translocation may be substituted by establishing propagated individuals;</li> <li>b. Measures to propagate and plant <i>Cycas megacarpa</i> individuals removed or impacted by construction activities to maintain a population of no less than 1,800 and up to 2,820 individuals (based on a 1:6 ratio of the number of <i>Cycas megacarpa</i> individuals disturbed) within the offset site required by condition 15(a).</li> <li>c. A detailed methodology for translocation, propagation and planting, including a map of the location of the offset site;</li> <li>d. Details of funding required to secure, maintain and enhance the values of the offset site in perpetuity;</li> <li>e. Details of a suitably qualified person to undertake translocation, propagation and planting;</li> <li>f. Details of the erosion and sediment control measures to be implemented in the ROW in the Callide and Calliope Ranges;</li> <li>g. Measures to rehabilitate the ROW in the Callide and Calliope Ranges;</li> <li>h. Measures for the control and management of weeds, fire, feral animals, access and grazing in translocation sites;</li> <li>i. Measures for management, maintenance and protection of the population of <i>Cycas megacarpa</i> individuals in the offset site for a period of five years following the final planting;</li> <li>j. Details of monitoring practices to assess the success of proposed management regimes of the offset;</li> <li>k. Performance measures, reporting requirements, trigger levels for corrective actions and identification of those actions to be taken to ensure performance measures are met.</li> </ul>	<p>Closed</p>	<p>The CMTP, including condition 17 a) to k), was approved November 2014.</p>
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18	The <i>Cycas megacarpa</i> Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Closed	The CMTP was approved by the Minister November 2014 and was implemented.
<b>Migratory Species</b>			
19	If a bundled pipeline crossing of the Narrows is not pursued then to offset the unavoidable impacts to listed migratory birds within the ROW at the Kangaroo Island Wetlands west of the Narrows, the proponent must contribute at least \$250,000 to the Gladstone Port Corporation's migratory bird research study required by the conditions of the Gladstone Western Basin Dredging and Disposal Project (EPBC 2009/4904).	NA	The condition is not applicable as a bundled pipeline crossing of the Narrows was undertaken.
<b>The Narrows crossing</b>			
20	<p>The proponent must prepare an Environmental Management Plan for the crossing of the Narrows. This must include:</p> <ol style="list-style-type: none"> <li>a. If the crossing is undertaken concurrently with the construction of one or more additional gas transmission pipelines (a bundled crossing): <ol style="list-style-type: none"> <li>i. The roles and responsibilities of each party involved in the bundled crossing</li> <li>ii. Details of the final pipeline route, engineering design and construction methodology, including details of the total number of gas transmission pipes including any pipelines for water supply and/or sewerage</li> <li>iii. Potential impacts from the construction of the pipeline on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef</li> <li>iv. Mitigation measures to reduce impacts on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef</li> <li>v. Proposed offset measures to compensate for unavoidable impacts on listed threatened species and ecological communities, listed migratory species and World and National Heritage-listed values in the Great Barrier Reef</li> </ol> </li> </ol>	Closed	<p>As reported in the 2013-2014 AER, the Environmental Management Plans were prepared in accordance with the condition.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>



	<p>vi. Measures for the management of acid sulphate soils (both potential and actual)</p> <p>vii. Measures for ongoing maintenance and decommissioning of the pipelines; or</p> <p>If the proponent does not proceed in a bundled crossing:</p> <p>b. A construction method which, in the opinion of the Minister, will result in minimal surface disturbance to the Kangaroo Island Wetlands and minimal disturbance to the area of the estuary of the Narrows (preferably achieved by horizontal directional drilling (HDD) or tunnelling);</p> <p>i. Details of the final pipeline route, design and construction methodology including details of the inclusion of pipes for water supply and sewerage;</p> <p>ii. Potential impacts from the construction of the pipeline on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef;</p> <p>iii. Mitigation measures to reduce impacts on listed threatened species, ecological communities, migratory species and World and National Heritage-listed values in the Great Barrier Reef</p> <p>iv. Proposed offset measures to compensate for unavoidable impacts of the action on listed threatened species and ecological communities, listed migratory species and World and National Heritage-listed values in the Great Barrier Reef</p> <p>v. Measures for the management of acid sulphate soils (both potential and actual)</p> <p>Measures for ongoing maintenance and decommissioning of the pipelines.</p>		
21	<p>The Environmental Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not start without approval. Each approved plan must be implemented.</p>	Closed	<p>Construction commenced upon receipt of approval. No update since 2013-2014 AER.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>

22	If the pipeline construction involves dredging to be undertaken by the proponent under the approval to which these conditions are attached, the proponent must prepare a Dredge Management Plan.	Closed	Dredging relating to the Australia Pacific LNG Project was managed by QGC in accordance with their Dredge Management Plan (QCLNG-BG-03-ENV-PLN-000073), under the Narrows Crossing Co-Operation Deed between QCLNG Pipeline Pty Ltd and Australia Pacific LNG Gladstone Pipeline Pty Ltd.  The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.
23	<p>The Dredge Management Plan required under these conditions must include:</p> <ul style="list-style-type: none"> <li>a. Details of dredging methods, planned commencement, duration and frequency of dredging;</li> <li>b. Identification of areas of potentially impacted seagrass habitat and their environmental tolerances;</li> <li>c. Site specific water quality objectives for the designated habitats as a guideline for habitat protection and that are in accordance with the National Water Quality Management Strategy including the Australia and New Zealand Guidelines for Fresh and Marine Water Quality, the Australian Guidelines for Water Quality Monitoring and Reporting, the Great Barrier Reef Water Quality Guidelines and the Queensland Water Quality Guidelines;</li> <li>d. Measures to refine the plume modelling data presented in the proponent's EIS;</li> <li>e. Mitigation measures and controls for the dredging and spoil disposal activities;</li> <li>f. Triggers for initiating adaptive management and potential remediation measures;</li> <li>g. Monitoring of: <ul style="list-style-type: none"> <li>i. Potential impacts of dredging on seagrass including but not limited to turbidity and light attenuation;</li> <li>ii. The triggers established under condition 23(f)</li> <li>iii. The long term impacts of the action</li> </ul> </li> <li>h. Options, linked to the triggers established under condition 23(f), for adaptively managing the action – including</li> </ul>	Closed	The Department confirmed compliance with this condition in their letter dated 13 September 2012.

	<p>options for varying the timing and location of dredging and spoil disposal activities;</p> <ul style="list-style-type: none"> <li>i. Details for monitoring of dredging activities, including timing and variables measured such as turbidity and light attenuation in a format as directed by the Department to allow validation of other modelling of dredging impacts relating to the Port of Gladstone;</li> <li>j. Measures to minimize the impact on listed migratory birds from noise associated with the construction activities;</li> <li>k. Measures to prevent and respond to the introduction of marine pest species;</li> <li>l. Measures to protect dugongs and listed turtle including the use of turtle excluder devices;</li> <li>m. Details of dredge spoil placement;</li> </ul> <p>Provisions to sample and analyse dredge spoil composition.</p>		
24	<p>The Dredge Management Plan must be submitted for the approval of the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.</p>	Closed	<p>The Department approved the Dredge Management Plan (QCLNG-BG-03-ENV-PLN-000073) on 7 August 2012 and confirmed compliance with this condition in their letter dated 13 September 2012.</p> <p>The condition has been closed out with the completion of the construction activities during the 2014-2015 reporting period.</p>
<b>Location of pipeline (Callide range)</b>			
25	<p>East of the Callide Range, the proponent must locate the pipeline within the Callide Infrastructure Corridor State Development Area substantially as indicated in the map at Attachment 1.</p>	Closed	<p>The main pipeline is located within the Callide Infrastructure Corridor State Development Area in accordance with the approval of a Material Change of Use of the premises issued by the Coordinator General on 24 August 2012.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>

Water Crossings			
26	<p>Where reasonably possible HDD must be used for major waterway crossings, including:</p> <ul style="list-style-type: none"> <li>a. This within the Dawson and Calliope River catchments and any water crossing within the known distribution of the Fitzroy River Turtle (<i>Rheodytes leukops</i>) and Murray Cod (<i>Maccullochella peelii</i>). Pipeline construction across waterways must not take place during the nesting and breeding season of the Fitzroy River Turtle;</li> </ul> <p>Humpie and Targinie Creeks.</p>	Closed	<p>HDD has been utilised to cross Humpie and Targinie Creeks under the Narrows Crossing Co-Operation Deed between QCLNG Pipeline Pty Ltd and Australia Pacific LNG Gladstone Pipeline Pty Ltd.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
27	<p>Trenchless techniques are not required in dry creek beds within the known distribution of the Fitzroy River Turtle (<i>Rheodytes leukops</i>) and Murray Cod (<i>Maccullochella peelii</i>) where the distance to the nearest water is sufficient to buffer any potential impacts resulting from the crossing technique or where the aquatic assessment has identified that MNES values can be protected through alternative construction methods.</p>	Closed	<p>No update since 2013-2014 AER.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>
28	<p>The proponent must prepare an Aquatic Values Management Plan. This plan must include:</p> <ul style="list-style-type: none"> <li>a. A detailed assessment of aquatic values, including animal breeding locations for listed threatened and migratory species within the ROW;</li> <li>b. Measures to minimise impacts on listed riparian, aquatic and water dependent flora and fauna;</li> <li>c. Measures to minimise erosion and sediment impacts to waterways;</li> <li>d. Measures to maintain water quality and water flow requirements, including treatment and disposal methods for hydrostatic test water;</li> <li>e. Site specific mitigation measures for any potential impacts from construction and operation of the pipeline on listed threatened species, including but not limited to the Fitzroy River Turtle (including the use of shallow turbid pools);</li> </ul>	Closed	<p>As reported in the 2013-2014 AER, the Aquatic Values Management Plans (Q-1800-15-MP-0040 and QCLNG-BG03-ENV-RPT-000087) was prepared in accordance with the condition.</p> <p>The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.</p>

	Details of the MNES survey of the site where the pipeline will cross Cockatoo Creek. To avoid impacts to the <i>Eriocaulon carsonii</i> (Salt Pipewort), the requirements for the Aquatic Values Management Plan (a) to (e) above should be presented separately for Cockatoo Creek.		
29	The Aquatic Values Management Plan must be approved in writing by the Minister. Commencement in the location covered by the management plan must not occur without approval. Each approved plan must be implemented.	Closed	Construction commenced upon receipt of approval. No update since 2013-2014 AER.  The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.
<b>Impacts on EPBC-listed species resulting from activities associated with the pipeline crossing at Cockatoo Creek</b>			
30	If an EPBC listed species is identified during the survey required in condition 28(f), the proponent must develop and implement a management plan in accordance with the requirements of condition 8	Closed	The condition was not triggered during the reporting period.  The condition has been closed with the completion of the construction activities during the 2014-2015 reporting period.
<b>Notification of commencement</b>			
31	Within 20 business days of commencement, the proponent must advise the Department in writing of the actual date of commencement.	Closed	Commencement occurred on 11 July 2012.
32	If, at any time after 5 years from the date of this approval, the Minister notifies the proponent in writing that the Minister is not satisfied that there has been commencement of the action, the action must not commence without written agreement of the Minister.	Not Applicable	Commencement occurred on 11 July 2012.
<b>Request for variation of plans by the proponent</b>			
33	If the proponent wants to act other than in accordance with the plan approved by the Minister under these conditions, the proponent must submit a revised plan for the Minister's approval.	Compliant	The original Main Pipeline EM Plan (Q-1801-15-MP-0002) was approved by the Minister 30 November 2011. Construction on the Main pipeline system commenced in July 2012.  The EM Plan Q-1801-15-MP-0002 version 7 was approved by the minister on 8 March 2013.
34	If the Minister approves the revised plan, then that plan must be implemented instead of the plan originally approved.	Compliant	No revised plans have been submitted to the Minister during the reporting period. EM Plan Q-1801-15-MP-0002 version 7 is being implemented.

35	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Compliant	No revised plans have been submitted to the Minister during the reporting period. EM Plan Q-1801-15-MP-0002 version 7 is being implemented.
<b>Revisions to plans by the Minister</b>			
36	If the Minister believes that it is necessary or desirable for the better protection of a relevant controlling provision for the action, the Minister may request the proponent to make, within a period specified by the Minister, revisions to a plan approved under these conditions.	Compliant	The Minister has made no requests during the reporting period.
37	If the Minister makes a request for a revision to a plan, the proponent must: <ul style="list-style-type: none"> <li>a. Comply with that request; and</li> <li>b. Submit the revised plan to the Minister for approval within a period specified in the request.</li> </ul>	Not triggered	The condition was not triggered during the reporting period.
38	The proponent must implement the revised plan on approval of the Minister.	Not triggered	The condition was not triggered during the reporting period.
39	Until the Minister has approved the revised plan, the proponent must continue to implement the original plan.	Not Applicable	The condition was not triggered during the reporting period.
<b>Minimum timeframes for consideration of plans</b>			
40	For any plan required to be approved by the Minister under these conditions, the proponent must ensure the Minister is provided at least 20 business days for review and consideration of the plan, unless otherwise agreed in writing between the proponent and the Minister.	Compliant	The original Main Pipeline EM Plan (Q-1801-15-MP-0002) was approved by the Minister 30 November 2011. Construction on the Main pipeline system commenced in July 2012.  The EM Plan Q-1801-15-MP-0002 version 7 was approved by the minister on 8 March 2013.

<b>Compliance with State environmental and other authorities</b>			
41	The proponent must comply with all environmental authorisations issued by the State, including conditions of an environmental authority issued under the EP Act.	Compliant	At a state level, Australia Pacific LNG is required to comply with conditions imposed by the Queensland Coordinator General and the conditions of Environmental Authorities issued by the Department of Environment and Heritage Protection.  During the reporting period, Australia Pacific LNG has complied with the relevant environmental authorisations to the extent that they apply to Matters of National Environmental Significance.
<b>Provision of State Plans</b>			
42	If a condition of a State approval requires the proponent to provide a new plan then the proponent must also provide the plan to the Department or Minister on request, within the period specified in the request.	Not triggered	The Minister has made no requests during the reporting period.
<b>Timeframes</b>			
43	If these conditions require the proponent to provide something by a specified time, a longer period may be specified in writing by the Minister.	Not triggered	Not applicable during the reporting period.

Auditing			
44	<p>On request of and within a period specified by the Department, the proponent must ensure that:</p> <ul style="list-style-type: none"> <li>a. An independent audit of compliance with these conditions is conducted; and</li> <li>b. An audit report, which addresses the audit criteria to the satisfaction of the Department, is published on the internet and submitted to the Department.</li> </ul>	Not Triggered	No requests from the Minister were received during the reporting period.
45	<p>Before the audit begins, the following must be approved by the Department:</p> <ul style="list-style-type: none"> <li>a. An independent auditor; and</li> <li>b. The audit criteria.</li> </ul>	Not Triggered	No requests from the Minister were received during the reporting period.
46	<p>The audit report must include:</p> <ul style="list-style-type: none"> <li>a. The component of the project being audited;</li> <li>b. The conditions that were activated during the period covered by the audit;</li> <li>c. A compliance/non-compliance table;</li> <li>d. A description of the evidence to support audit findings of compliance or non-compliance;</li> <li>e. Recommendations on any non-compliance or other matter to improve compliance;</li> <li>f. A response by the proponent to the recommendations in the report (or, if the proponent does not respond within 20 business days of a request to do so by the auditor, a statement by the auditor to that effect);</li> <li>g. Certification by the independent auditor of the findings of the audit report.</li> </ul>	Not Triggered	No requests from the Minister were received during the reporting period.
47	The financial cost of the audit will be borne by the proponent.	Not Triggered	No requests from the Minister were received during the reporting period.



48	<p>The proponent must:</p> <ul style="list-style-type: none"> <li>a. Implement any recommendations in the audit report, as directed in writing by the Department after consultation with the proponent;</li> <li>b. Investigate any non-compliance identified in the audit report; and</li> <li>c. If non-compliance is identified in the audit report – take action as soon as practicable to ensure compliance with these conditions.</li> </ul>	Not Triggered	No requests from the Minister were received during the reporting period.
49	<p>If the audit report identifies any non-compliance with the conditions, within 20 business days after the audit report is submitted to the Department the proponent must provide written advice to the Minister setting out the:</p> <ul style="list-style-type: none"> <li>a. Actions taken by the proponent to ensure compliance with these conditions; and</li> <li>b. Actions taken to prevent a recurrence of any non-compliance, or implement any other recommendation to improve compliance, identified in the audit report.</li> </ul>	Not Triggered	No requests from the Minister were received during the reporting period.
<b>Reporting non-compliance</b>			
50	<p>The proponent must, when first becoming aware of a non-compliance with these conditions or a plan required to be approved by the Minister under these conditions:</p> <ul style="list-style-type: none"> <li>a. Report the non-compliance and remedial action to the Department within five business days;</li> <li>b. Bring the matter into compliance within a reasonable time frame specified in writing by the Department.</li> </ul>	Compliant	The non-compliance identified during preparation of the previous Annual Environmental Return was notified to the Department as part of that report.

<b>Record-keeping</b>			
51	<p>The proponent must:</p> <ul style="list-style-type: none"> <li>a. Maintain accurate records substantiating all activities associated with or relevant to these conditions of approval, including measures taken to implement a plan approved under these conditions; and</li> <li>b. Make those records available to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with Section 458 of the EPBC Act, or used to verify compliance with these conditions.</li> </ul>	Compliant	All records are being kept within Australia Pacific LNG's document control system.
<b>Financial Assurance</b>			
52	<p>The proponent must:</p> <ul style="list-style-type: none"> <li>a. Provide the Minister with a financial assurance in the amount and form required from time to time by the Minister for activities to which these conditions apply; and</li> </ul> <p>Review and maintain the amount of financial assurance based on proponent reporting on compliance with these conditions, and any auditing of the activities.</p>	Not Triggered	No financial assurance has been requested by the Minister during the reporting period.
53	The financial assurance is to remain in force until the Minister is satisfied that no claim is likely to be made on the assurance.	Not Triggered	No financial assurance has been requested by the Minister during the reporting period.
<b>Annual Environmental Return</b>			
54	<p>The proponent must produce an Annual Environmental Return which:</p> <ul style="list-style-type: none"> <li>a. Addresses compliance with these conditions;</li> <li>b. Records any unavoidable adverse impacts on MNES, mitigation measures applied to avoid adverse impacts on MNES; and any rehabilitation work undertaken in connection with any unavoidable adverse impact on MNES;</li> <li>c. Identifies all non-compliance with these conditions; and</li> </ul> <p>Identifies any amendments needed to plans to achieve compliance with these conditions.</p>	Compliant	This document CDN/ID 29094397 satisfies this condition.

55	The proponent must publish the Annual Environmental Return on its website within 20 calendar days of each anniversary date of this approval. In complying with this publication requirement, the proponent must ensure that it has obtained relevant rights in relation to confidentially and intellectual property rights of third parties.	Compliant	The 2020 AER was published on the Project website on 12 March 2020. <a href="https://www.aplng.com.au/about-us/compliance/management-plans.html">https://www.aplng.com.au/about-us/compliance/management-plans.html</a>
<b>Survey Data</b>			
56	If requested by the Department, the proponent must provide all species and ecological survey data and related survey information from ecological surveys undertaken for MNES. The data must be collected and recorded to conform to data standards notified from time to time by the Department.	Compliant	No requests for data were made during the reporting period.
<b>Publication of Plans</b>			
57	All plans approved by the Minister under these conditions must be published on the proponent's website within 30 business days of approval by the Minister.	Compliant (this reporting period)	Noting that the EMP Plan Q-1801-15-MP-0002 version 7 was approved by the minister on 8 March 2013. During the previous reporting period, it was identified that this plan was not available on the website. This was rectified 7 March 2017.
58	The Department may request the proponent to publish on the internet a plan in a specified location or format and with specified accompanying text. The proponent must comply with any such request.	Compliant	No requests were made during the reporting period.

## 5. Reconciliation of Disturbance Limits

Condition 11(a) allows for maximum disturbance limits for unavoidable impacts upon listed threatened communities and potential habitat for listed threatened species and migratory species as a result of the construction, operation and decommissioning.

Condition 11(b) requires that the proponent prepare a reconciliation statement identifying the impacts against the agreed disturbance limits.

Please refer to **Table 3** for a statement of clearing impacts.

**Table 3: Clearing Impacts Reconciliation Statement**

Table 1: EPBC Listed threatened ecological communities			
Ecological Community	EPBC Status	Approved Disturbance Limit (ha)	Clearing Impact (total to date) (ha)
Brigalow ( <i>Acacia harpophylla</i> dominant and co-dominant)	Endangered	5.41	1.10
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	0.26	0.24
Species	EPBC Status	Disturbance Limit (ha)	
<i>Cycas megacarpa</i> (Large-fruited Zamia)	Endangered	470 individuals	357
<i>Cadellia pentastylis</i> (Ooline)	Vulnerable	10 individuals	1
<i>Xeromys myoides</i> (Water Mouse)	Vulnerable	15.6	4.88

Note: Clearing was completed in the 2013-2014 reporting period. As shown in Table 4, all clearing values are below the approved disturbance limits.

## 6. Record keeping

Evidence captured as part of this Annual Environmental Report is stored in Opentext.

## 7. References/Associated documents

Documents references in this Environmental Annual Return are listed below.

Document Number	Title
Q-LNG01-15-MP-0118	<i>Cycas megacarpa</i> Management and Translocation Plan
Q-1801-15-MP-0002	Main Pipeline Environmental Management Plan
Q-1800-15-MP-0004	Operations Environmental Management Plan
Q-LNG01-15-MP-0074	Pipeline Threatened Fauna Management Plan
Q-1802-15-MP-0017	Environmental Management Plan PPL162 Terrestrial
QCLNG-BG-03-ENV-PLN-000073	Dredge Management Plan
Q-LNG01-15-MP-0544	Inverness Offset Area Management Plan

## 8. Document information and history

### DOCUMENT CUSTODIAN GROUP

Title	Name/s
General Manager – RAC and Process Safety	Gary Williams

### DOCUMENT AUTHOR

Position	Name
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### DOCUMENT HISTORY

Rev	Date	Changes made in document	Reviewer/s	Consolidator	Approver
A	9/03/2021	Issued for content review	G Wicks T Hancox	-	-
0	11/03/2021	Issued for Information	-	M Dreyer	G Williams