



Q-4200-15-RP-1248 _2

Memorandum

From	Sarah Tune	Date	11 November 2015
To	Tom Hatfield		
Copy	N/A		
Subject	DA1758 Australia Pacific LNG Gathering Sustain Phase - Combabula, Lots 5AB27 and 9AB112 Ecology Report Addendum Memo		

This memo provides specific information regarding an additional Ecology Survey carried out over road reserve west of Lot 5 on Plan AB27, covered under PLA419, PACT Disturbance Project Reference #1758 and DA2032 on the 25th of October 2015, by Origin Senior Field Environmental Advisor Sarah Tune.

The additional survey was required within the Clifford Road reserve associated with AT10. The additional survey captured one (1) additional GTRE polygon not assessed by Boobook. The area was ground-truthed to be Brigalow TEC and 'Endangered' Regional Ecosystem 11.9.5 (Refer to Figure 1 below).

The Ecology Assessment Report for the original design layout is Q-4200-15-RP-1248.

Survey methodologies employed for the ecology survey have been applied in accordance with:

- The *Methodology for Survey and Mapping of Regional Ecosystems and Vegetation Communities in Queensland* (Neldner et al. 2005)
- In line with the methodology described in the *Environmental Constraints Planning and Field Development Protocol* (Q-LNG01-15-MP-0109, Australia Pacific LNG 2011).

Survey methodologies were concise with Boobook ecologist surveying techniques, and did not vary in any way.

Kind regards

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Table 1: Commonwealth Environmental Matters - Field Survey Results

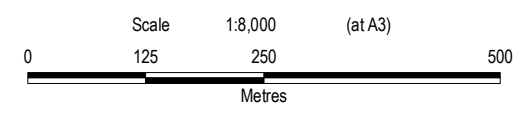
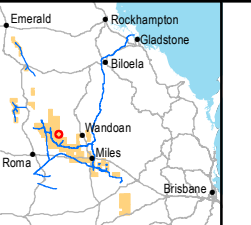
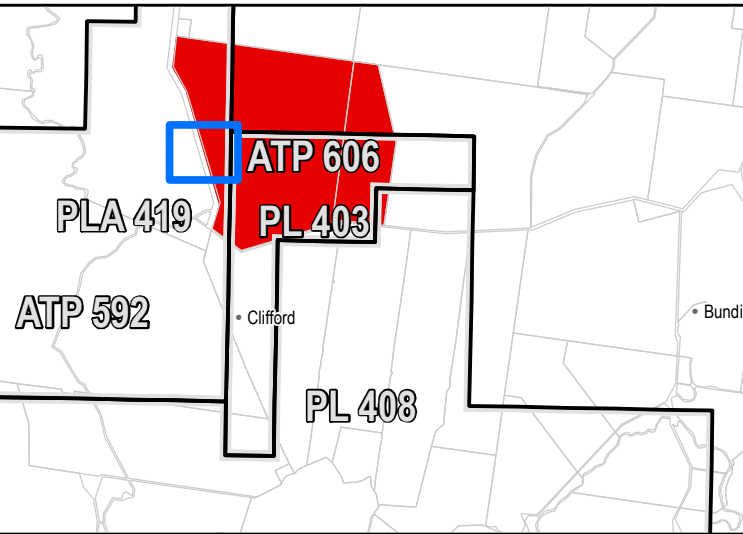
Commonwealth environmental matters	Present (Y/N)	Description*	Status	Condition	Comments
TECs	Y	Brigalow (<i>Acacia harpophylla</i> dominant and co-dominant) ecological community.	Endangered	<p>Fair condition, the area has been exposed to previous disturbance and edge effects associated with its close proximity to the Clifford Road.</p> <p>The patch of vegetation, is relatively thin, however is part of a contiguous polygon that extends a considerable distance.</p> <p>Grazing of native macropods and a low incursion of weeds was observed.</p>	<p><i>Acacia harpophylla</i> (Brigalow) dominant, other species observed include <i>Casuarina cristata</i> (belah), <i>Santalum lanceolatum</i> (sandalwood), <i>Eremophila mitchellii</i> (false sandalwood) and <i>Geijera parviflora</i> (wilga) open forests on fine-grained sedimentary rocks.</p>

**Figure 1: Ground Truthed Regional Ecosystems, Road Reserve
adjacent to Lot 5 on Plan AB27 – DA2032 and DA1758,
GISWR_29722_IFU_Rev0 11/11/2015**

Legend

- DNRM Stream Order
- Ground Truthed Regional Ecosystems (RE) Biodiversity Status
- Remnant Vegetation
 - Endangered RE
- Ground Truthed Threatened Ecological Community
 - Brigalow
- Boundary
 - Surveyed Cadastral
 - Permit

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Coordinate System: GDA 1994 MGA Zone 55

Rev	Description	Drawn	Check	QA	Approved	Date
0	Issued For Use	ALM	ST	TMB	ST	11/11/2015
A	Issued For Review	ALM	ST	MLM	RJ	29/10/2015



Figure 1 : Ground Truthed Regional Ecosystems
Dingle - DA2032 / DA1758
Date: 11 November 2015

Map Number 1 of 1	Doc No Q-4200-15-RP-1248_2	Rev 0
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