Scotia Ecology Survey

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## Quality Information

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<tr>
<td>Prepared by</td>
<td>David Gatfield</td>
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<tr>
<td>Reviewed by</td>
<td>Chris Todd</td>
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## Revision History

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1.0 Introduction

1.1 Background

Santos GLNG has engaged AECOM to undertake field validated high resolution mapping of Regional Ecosystems and habitat for selected fauna species on properties within the Santos Scotia Gas Field (Petroleum Lease (PL) 176).

A terrestrial ecology assessment was undertaken by AECOM in November and December 2015. The assessment was a two stage process, involving a literature review, followed by a field survey. The literature review analysed existing biodiversity data to identify conservation significant values including Regional Ecosystems, flora and fauna species. This review formed the basis of the field surveys, in which potentially present conservation significant values were targeted and ecological values documented.

1.2 Study Aims

The aims of the ecology study were to:

- Ground-truth Regional Ecosystem (RE) mapping
- Undertake Functionality tests on Of Concern and Endangered regrowth REs
- Complete Habitat Mapping Assessment Tool (HMAT) assessments at each survey site
- Record incidental observations of Endangered, Vulnerable or Near Threatened (EVNT) flora and fauna.

1.3 Project area

The Project area is located in the southern Brigalow Belt bioregion in the Bowen Basin. The Project area is approximately 15 kilometres north east of Wandoan and 140 km north east of Roma, in Central Queensland.

The Project area and surrounding region is predominantly open grazing pasture and agriculture, interspersed with tracts of remnant vegetation and non-remnant vegetation.

The Project area and its position within the region are presented on Figure 1. As identified in Figure 1, the Project area is bounded by PL 176.
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Data sources:
- Client supplied data: Property Boundary
- Base Data: (c) 2015 Santos, (c) 2015 Bing

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MH - 03-03-2016

LEGEND
- Locality
- Property Boundaries
- Scotia gas field

PROJECT LOCATION
Santos Pty Ltd
Project Area and Regional Setting
Scotia Ecology Survey Report

PROJECT ID
CREATED BY
LAST MODIFIED
VERSION
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MH - 03-03-2016

Map
A4 size
2.0 Methodology

2.1 Regional Ecosystem Assessment

The flora surveys employed an assessment of floral taxa and vegetation communities, in keeping with the methodology employed by the Queensland Herbarium for the survey of REs (Neldner et al., 2012). Preliminary identification of the vegetation communities and target field survey locations was conducted prior to the commencement of fieldwork via interpretation of colour aerial photography and 1:100,000 RE mapping of the region.

Field surveys involved a botanical assessment at a number of representative sites within each remnant, non-remnant and regrowth vegetation community, as identified from desktop searches. The surveys employed a number of standard methods including quaternary survey sites and random meander search areas.

A number of vehicle traverses of the Project area were undertaken during the survey period, to identify changes in landzones and identify vegetation community boundaries. Community structural formation classes were assessed according to Neldner et al. (2012). RE classification of communities was determined as per Sattler and Williams (1999), and in accordance with the Regional Ecosystems Description Database (REDD) (Queensland Herbarium, 2014).

The flora surveys were undertaken between the 30 November to 2 December 2015 and 15 December to 18 December 2015.

Quaternary surveys were undertaken at 62 survey locations across the Project area (Figure 2). Quaternary-level survey locations were used to verify vegetation units and confirm dominant characteristic species. Structural analysis included recording the height class and life form of the dominant species within the mid and canopy strata as per Neldner et al. (2012). RE classification (Sattler and Williams, 1999) was determined based on estimated structural and floristic analysis.

Several digital photographs were taken at each plot for future reference. The location of each quaternary survey location was recorded using a Trimble Nomad GPS.

2.2 Functional Regional Ecosystem Assessment

Functionality assessments were undertaken on non-remnant vegetation communities listed as Endangered and Of Concern (biodiversity status). The purpose of the functionality assessments was to determine the potential for a non-remnant community to provide for ecological functioning in the landscape. The assessment deployed followed the Santos methodology “Functional Thresholds for Assessing Regional Ecosystem Functionality”. The minimum ecosystem attributes for a community to be regarded as functional are identified in Table 1 below.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Cut-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patch Size</td>
<td>&gt;0.5ha</td>
</tr>
<tr>
<td>Total non-native perennial vegetation cover</td>
<td>&lt;50%</td>
</tr>
<tr>
<td>Recruitment to the Ecologically Dominant Layer (EDL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Minimum median canopy height</td>
<td>&gt; 1/3 of the median benchmark EDL</td>
</tr>
</tbody>
</table>
2.3 Habitat Mapping Assessment Tool

Prior to the field program, Santos' predictive habitat mapping tool was reviewed to identify potential fauna habitat within the Project area. During the field program, field based assessments were undertaken at every flora survey site, using the Habitat Mapping and Assessment Tool (HMAT). The HMAT incorporates both landscape and microhabitat factors into the site assessment, including:

- Tenement in which the Habitat Zone is located (Part A of HMAT). This allows a filter based on species distribution. Only the species known or likely to occur within a tenure will be further assessed
- Biodiversity Planning Assessment (BPA) Mapping (Part B of HMAT)
- Proximity to water (Part C of HMAT)
- Underlying vegetation type (Part D of HMAT)
- Specimen backed records (Part E of HMAT)
- Microhabitat features present (Part F).

The output of the HMAT is a prediction of habitat classes of Unlikely, General, Essential or Core habitat for each of the significant species identified in the preliminary desktop assessment. The resulting output of the HMAT habitat prediction is then reviewed and confirmed, or rejected with justification.

2.4 Vegetation Mapping

Following the field assessment of vegetation within the Scotia Project area, vegetation communities were mapped using GIS software in conjunction with field results. Vegetation mapping was undertaken using ortho-rectified 2015 aerial imagery. Both remnant and functional regrowth vegetation communities were mapped. The amended RE mapping was produced at a nominal scale of 1:10,000.

2.5 Habitat mapping

Using detailed vegetation community mapping and the confirmed and reviewed results of the HMAT analysis were used to develop GIS-based mapping of potential habitat for the identified species within the Site. This mapping was produced at a nominal scale of 1:10,000.

2.6 Nomenclature

3.0 Results and Discussion

The Project area is dominated by modified grassland vegetation, associated with cattle grazing land practices. Remnant vegetation within the Project area is typically dominated by *Acacia harpophylla* (brigliolow) and *Casuarina cristata* (belah), particularly in areas south of Bungaban Twelve Mile Road where self-mulching clay soils are prevalent. North of Bungaban Twelve Mile Road, remnant vegetation transitions into *Callitris glaucophylla* (white cypress pine) woodland and Eucalypt woodland, including species such as *Eucalyptus populnea* (poplar box), *E. crebra* (narrow-leaved ironbark) and *E. melanophloia* (silver-leaved ironbark). Riparian woodland types dominated by *Eucalyptus tereticornis* and *Angophora floribunda* occur upon Quaternary alluvium sediment along Bungaban Creek in the north of the Project area.

3.1 Geology

The desktop assessment identified the Project area as being dominated by Jurassic aged sedimentary deposits, with small occurrences of Quaternary alluvium present along Bungaban Creek which forms the northern boundary of the Project area. Table 2 below outlines the major geological units mapped within the Project area and provides the analogous land zone unit.

<table>
<thead>
<tr>
<th>Map Symbol</th>
<th>Age</th>
<th>Lithology Description</th>
<th>Land Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qa</td>
<td>Quaternary</td>
<td>Channel and flood plain alluvium; gravel, sand, silt, clay</td>
<td>3</td>
</tr>
<tr>
<td>Jsi</td>
<td>Mesozoic</td>
<td>Calcareous lithic sandstone, siltstone, mudstone, coal, conglomerate</td>
<td>9/10</td>
</tr>
<tr>
<td>Jsbh</td>
<td>Mesozoic</td>
<td>Poorly sorted, coarse to medium-grained, feldspathic subaliabile sandstone (at base) and fine-grained, well-sorted quartzose sandstone (at top); minor carbonaceous siltstone, mudstone, coal and rare pebble conglomerate</td>
<td>9/10</td>
</tr>
</tbody>
</table>

3.2 Regional Ecosystem Mapping

The field assessment recorded ten REs. Of the REs identified four are listed as Endangered, two listed as Of Concern and four listed as No Concern at present (biodiversity status). Table 3 below provides a summary of the REs identified.

<table>
<thead>
<tr>
<th>RE</th>
<th>Short Description</th>
<th>Biodiversity Status</th>
<th>VM Act Status</th>
<th>EPBC Act Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.3.1</td>
<td><em>Acacia harpophylla</em> and/or <em>Casuarina cristata</em> open forest on alluvial plains</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>11.3.2</td>
<td><em>Eucalyptus populnea</em> woodland on alluvial plains</td>
<td>OC</td>
<td>OC</td>
<td>-</td>
</tr>
<tr>
<td>11.3.25</td>
<td><em>Eucalyptus tereticornis</em> or <em>E. camaldulensis</em> woodland fringing drainage lines</td>
<td>OC</td>
<td>LC</td>
<td>-</td>
</tr>
<tr>
<td>11.3.39</td>
<td><em>Eucalyptus melanophloia</em> +/- <em>E. chloroclad</em> open woodland on undulating plains and valleys with sandy soils</td>
<td>NC</td>
<td>LC</td>
<td>-</td>
</tr>
<tr>
<td>11.9.1</td>
<td><em>Acacia harpophylla</em>-<em>Eucalyptus cambageana</em> woodland to open forest on fine-grained sedimentary rocks</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>11.9.5</td>
<td><em>Acacia harpophylla</em> and/or <em>Casuarina cristata</em> open forest on fine-grained sedimentary rocks</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>11.9.10</td>
<td><em>Eucalyptus populnea</em> open forest with a secondary tree layer of <em>Acacia harpophylla</em> and sometimes <em>Casuarina cristata</em> on fine-grained sedimentary rocks</td>
<td>E</td>
<td>OC</td>
<td>-</td>
</tr>
<tr>
<td>11.10.7</td>
<td><em>Eucalyptus crebra</em> woodland on coarse-grained sedimentary rocks</td>
<td>NC</td>
<td>LC</td>
<td>-</td>
</tr>
<tr>
<td>RE</td>
<td>Short Description</td>
<td>Biodiversity Status</td>
<td>VM Act Status</td>
<td>EPBC Act Status</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------------------------------------------------------------</td>
<td>---------------------</td>
<td>---------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>11.10.9</td>
<td><em>Callitris glaucophylla</em> woodland on coarse-grained sedimentary rocks</td>
<td>NC</td>
<td>LC</td>
<td>-</td>
</tr>
<tr>
<td>11.10.11</td>
<td><em>Eucalyptus populnea, E. melanophloia</em> +/- <em>Callitris glaucophylla</em> woodland on coarse-grained sedimentary rocks</td>
<td>NC</td>
<td>LC</td>
<td>-</td>
</tr>
</tbody>
</table>

E – Endangered, OC – Of Concern, LC – Least concern, NC – No concern at present

Of the above REs, three Endangered RE types were also mapped as functional regrowth communities, including:
- RE 11.3.1
- RE 11.9.1
- RE 11.9.5.

Appendix A summarises the structure and functionality of each vegetation community assessed.

REs ground-truthed within the Project area are depicted in Figure 3.
3.2.1 EPBC Act Threatened Ecological Community

Of the REs mapped within the Project area, three align with the *Brigalow (Acacia harpophylla dominant and co-dominant)* EPBC TEC, including RE 11.3.1, 11.9.1 and 11.9.5. Where these communities are present as functional regrowth, EPBC TEC status also applies.

Vegetation communities analogous with the *Brigalow (Acacia harpophylla dominant and co-dominant)* TEC are depicted in Figure 4. Four polygons within these target REs (sites 8, 12, 27 and 44) did not meet the key diagnostic characteristics of the *Brigalow (Acacia harpophylla dominant and co-dominant)* TEC and therefore have been excluded from the TEC mapping.

3.3 Flora Species Diversity

The field trip identified 59 flora species across all survey sites. These species and the sites in which they were recorded are presented in Appendix B. No conservation significant flora species were recorded during the survey. One declared weed was recorded, *Opuntia tomentosa* (velvet tree pear).

3.4 Habitat Mapping Assessment Tool

The HMAT assessments were carried out at each flora survey site. Potential general habitat for seven conservation significant fauna species was identified. Table 4 below lists these species and identifies the site locations where potential habitat was identified. The results of HMAT were used to map the fauna habitat present across the site and the data was supplied to Santos.

<table>
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<tr>
<th>Fauna Species Identified</th>
<th>Habitat Type Confirmed</th>
<th>Survey Locations</th>
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<tr>
<td>Koala</td>
<td>General</td>
<td>16, 17, 18, 19, 24, 26, 27, 28, 29, 30, 31, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 51, 52, 53, 54, 59</td>
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<tr>
<td>Squatter pigeon</td>
<td>General</td>
<td>37, 40, 41, 42, 44, 45, 46, 47, 48</td>
</tr>
<tr>
<td>South-eastern long-eared bat</td>
<td>General</td>
<td>18, 19, 24, 25, 26, 29, 30, 31, 34, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 62</td>
</tr>
<tr>
<td>Dunmall’s snake</td>
<td>General</td>
<td>1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62</td>
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<tr>
<td>Yakka skink</td>
<td>General</td>
<td>29, 30, 31, 32, 33, 34, 35, 36, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 57, 58, 59, 60, 62</td>
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<tr>
<td>Collared delma</td>
<td>General</td>
<td>1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62</td>
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<tr>
<td>Australian painted snipe</td>
<td>General</td>
<td>41, 47</td>
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CREATED BY: MH

Scotia Ecology Survey REPORT
Santos Pty Ltd
EPBC Threatened Ecological Communities
Scotia Ecology Survey Report

DATUM GDA 1994, PROJECTION MGA ZONE 57

LEGEND
- Scotia gas field
- PL176
- Brigalow (Acacia harpophylla dominant and co-dominant)
- EPBC TEC
- Locality
- Local road
- Property Boundaries

Map

A4 size
4.0 Conclusion

The field survey undertaken by AECOM identified ten REs within the Project area (Section 2.1). Three REs were also recorded as functional regrowth communities (Section 2.2). Remnant vegetation within the Project area included *Acacia harpophylla* (brigalow) communities, particularly in areas south of the Bungaban Twelve Mile Road. North of Bungaban Twelve Mile Road, remnant vegetation transitions into Eucalypt woodlands and *Callitris glaucophylla* (white cypress pine) woodlands.

Brigalow REs within the Project area is analogous to the EPBC Act *Brigalow (Acacia harpophylla dominant and co-dominant)* TEC (Figure 4). The flora survey identified no flora species of conservation significance.

Fauna habitat within the Project area was restricted to remnant and functional regrowth communities. Habitat for seven fauna species of conservation significance was identified. The greatest areas of potential habitat was identified for the Dunmall’s snake (*Furina dunmalli*), yakka skink (*Egernia rugosa*) and collared delma (*Delma torquata*) with micro-habitat features recorded within most regional ecosystem types. Of the remaining species, available habitat was dependent on factors such as the presence of Eucalypts, hollows and proximity to water.
5.0 References


# Appendix A  Quaternary Site Summary

<table>
<thead>
<tr>
<th>Site Number</th>
<th>Latitude</th>
<th>Longitude</th>
<th>RE</th>
<th>Structure</th>
<th>Functionality</th>
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<tr>
<td>Q1</td>
<td>-25.96076</td>
<td>150.01921</td>
<td>11.9.5</td>
<td>Remnant</td>
<td>Functional</td>
</tr>
<tr>
<td>Q2</td>
<td>-25.984359</td>
<td>150.024103</td>
<td>n/a</td>
<td>Non-rem</td>
<td>Non-functional</td>
</tr>
<tr>
<td>Q3</td>
<td>-25.995945</td>
<td>150.108418</td>
<td>11.9.5</td>
<td>Remnant</td>
<td>Functional</td>
</tr>
<tr>
<td>Q4</td>
<td>-25.975017</td>
<td>150.09414</td>
<td>11.9.5</td>
<td>Non-rem</td>
<td>Non-functional</td>
</tr>
<tr>
<td>Q5</td>
<td>-25.986352</td>
<td>150.093557</td>
<td>11.9.5</td>
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<td>Functional</td>
</tr>
<tr>
<td>Q6</td>
<td>-25.989843</td>
<td>150.090998</td>
<td>11.9.5</td>
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<td>Functional</td>
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<td>Q7</td>
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<td>150.095033</td>
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<tr>
<td>Q8</td>
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<td>150.097447</td>
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<td>-25.966755</td>
<td>150.029318</td>
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<td>Q10</td>
<td>-25.94268</td>
<td>150.01581</td>
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<td>Q13</td>
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<td>Q20</td>
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<td>11.9.5</td>
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<td>Functional</td>
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<td>Q21</td>
<td>-25.967959</td>
<td>150.076911</td>
<td>11.9.5</td>
<td>Non-rem</td>
<td>Non-functional</td>
</tr>
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*Revision 1 – 04-Mar-2016 Prepared for – Santos Ltd – ABN: 80 007 550 923*
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