



**Roma Ecological Assessment
Report – Lot 4 RP858912
Santos Ltd**

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Document prepared by:

Aurecon Australia Pty Ltd
ABN 54 005 139 873
32 Turbot Street
Brisbane
Queensland 4000 Australia

T: +61 7 3173 8000
F: +61 7 3173 8001
E: brisbane@ap.aurecongroup.com
W: aurecongroup.com

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Contents

1.	Background	1
1.1	Project description	1
1.2	Purpose of report	1
2.	Methodology	3
2.1	Desktop methodology	3
2.2	Field methodology	3
3.	Ecological assessment	4
3.1	Water pipeline corridor	4
3.2	Corridor R4 (partial)	6
3.3	Road Corridor	8
4.	Conclusion	11
5.	References	12

Appendix A

Flora species list

1. Background

1.1 Project description

Santos Ltd (Santos) have commissioned Aurecon Australia Pty Ltd (Aurecon) to undertake ecological investigations of proposed areas of development for the Roma gas fields.

The Roma gas fields are located near the township of Roma and are characterised by undulating terrain with small elevated areas including the Thomby and Grafton Range. The dominant vegetation types within the Roma gas fields include Eucalypt and/or Brigalow woodlands, Blue grass or Mitchell grass downs, and smaller areas of White Cypress Pine and Mulga (Eddie 2007). The Roma gas fields are located within the Balonne River catchment.

Much of this area has been subject to cattle grazing and other agricultural practices, as well as previous development associated with the gas fields.

This report is specific to the proposed development areas listed below and shown in Figure 1:

- Water Pipeline corridor,
- Corridor R4 (partial)
- Geotechnical survey locations situated within the above corridors and shown in Figure 1

These areas are collectively referred to as the 'proposed development area', and are located entirely within Lot 4 RP858912. Note that the subject of this report is solely related to Lot 4 RP858912. Where survey areas overlap additional properties, these sites will be further addressed in the report relevant to those properties/lots.

1.2 Purpose of report

The aim of this report is to provide an ecological assessment of the proposed development areas located on Lot 4 RP858912 (Figure 1), and to identify areas and species of notable ecological or conservation value. This report does not make any recommendations regarding the development in relation to any Santos environmental authorities or other approvals.



Legend

- Notable Species
 - Geotech Borehole Locations
 - Ground Truthed Areas
 - Drainage (100K)
 - ESA Category A
 - ESA Category B
 - ESA Category C
- Regional Ecosystem Mapping**
- Non-remnant / regrowth
 - Endangered - Sub-dominant
 - Endangered - Dominant
 - Of Concern - Sub-dominant
 - Of Concern - Dominant
 - Not Of Concern
 - Plantation forest
 - Water

Notes:

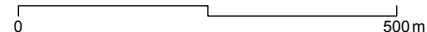
Date: 05/07/2011

Version: 1

Map by: Moore NK P:\CW\215648 Santos\Mapping\3\WT18_Fairview_Overview.mxd 09/06/2011 09:01



A3 scale: 1:10,000



Job No: 215648

Coordinate system: GDA 1994 MGA Zone 55

2. Methodology

2.1 Desktop methodology

Proposed development areas have been projected on a range of maps provided by Santos. These maps include Regional Ecosystem (RE) Mapping (version 6.0; Department of Environment and Resource Management [DERM]), Environmentally Sensitive Areas (ESA) mapping, drainage mapping and aerial photography. Where available ahead of time, these resources were reviewed to determine target areas for the field inspection. It is important to note that the RE classifications used in this report are based on the 'biodiversity status' of the vegetation and not the '*Vegetation Management Act 1999* (VM Act) status' of the vegetation.

2.2 Field methodology

The proposed development areas were assessed by two (2) Aurecon ecologists (Luke Foster and Karen Bowland) on the 17 June 2011. These assessments were to determine the existing vegetation communities and habitat value of the proposed clearing within the development areas as well as to verify the RE mapping as produced by DERM.

GIS environmental constraints layers (e.g. RE Mapping, ESA mapping etc) and high resolution aerial photography were uploaded onto a toughbook (C5 mobile clinical assistant CFT-001 – Motion computing), with an integrated GPS used to locate surveys areas. Handheld Garmin GPS units (GPS map 76) were also used during the field investigations. It should be noted that while efforts were made to ensure the GPS co-ordinates provided in this report are accurate, a margin of error approximately +/- 15 m is expected due to the limitations of the devices used and the recording environment.

The corridors were 100 m wide and of varying lengths and the geotechnical survey locations were also assessed as part of the survey areas (a 50 m buffer zone around each survey location was assessed).

The ground-truthing of the proposed development areas included undertaking detailed flora species surveys including sampling of unknown flora, and recording all incidental fauna observations. All species known to be of conservation significance (such as endangered, vulnerable, near threatened or Type A species under the *Nature Conservation Act 1992* [NC Act] or endangered, vulnerable or rare species under the *Environment Protection and Biodiversity Conservation Act 1999* [EPBC Act]) were recorded using the toughbook.

A list of flora species observed in the proposed development areas has been included in Appendix A. Incidental fauna observations are provided in the relevant sections throughout this report.

3. Ecological assessment

3.1 Water pipeline corridor

General

The water pipeline corridor heads in a west-south-west direction across lot 4 (RP858912) continues into Lot 2 (RP858912). The Bend Road runs along the northern boundary of this lot and intersects the start of this corridor. 7699-TP-15 adjoins the corridor on the northern boundary of the lot. The proposed water pipeline can be seen in Figure 3.1.

The majority of the corridor has been subjected to severe disturbance in the form of extensive clearing and various agricultural practices. Grazing was evident at the time of surveys. A small farm access track traversed this corridor.

No remnant vegetation under RE mapping is present within the corridor and associated well pads.

No mapped ESAs are present within the proposed water pipeline corridor and associated pads. The closest ESA is situated more than 1 km north of the corridor.

Existing vegetation (canopy layer) is made up of scattered paddock trees. A number of EPBC listed *Acacia harpophylla* (Brigalow) were recorded within the corridor.

Parts of the corridor exhibited signs of erosion, most likely due to water run-off from neighbouring cropped areas.

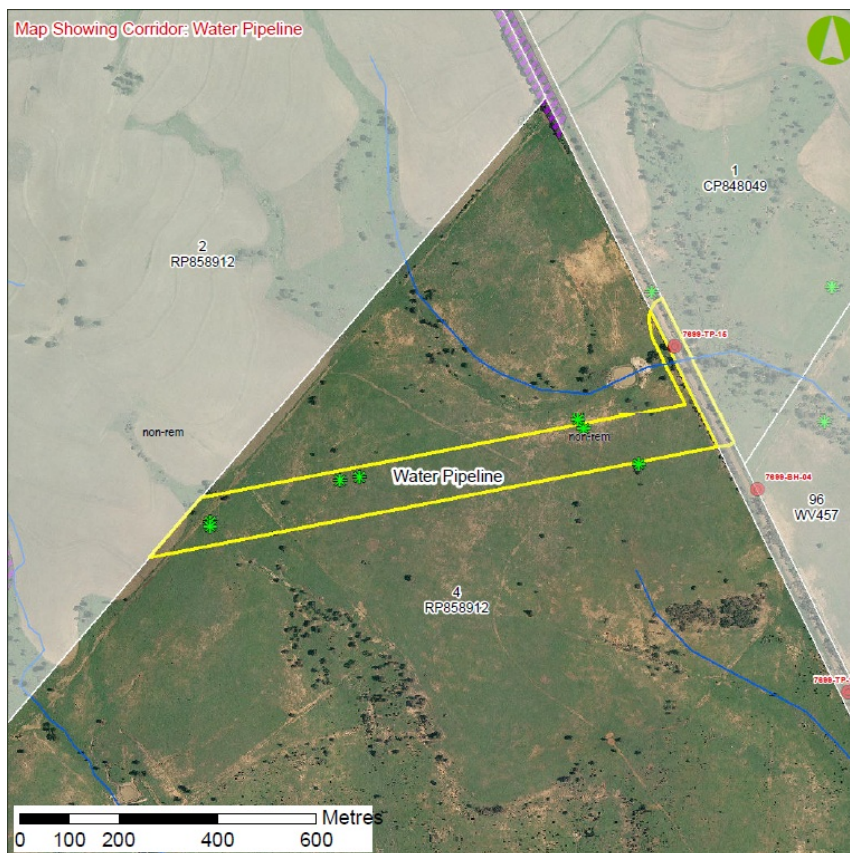


Figure 3.1 Proposed water pipeline within Lot 4 RP858912

Floristics

Due to the cleared and agricultural nature of Lot 4 RP858912, the remaining vegetation is scarce and is predominantly made up of non-native species.

The scarcely scattered paddock trees present within the corridor are made up of *Casuarina cristata* (Belah), *Brachychiton* species and a small number of *Acacia harpophylla* (Brigalow). Shrubs species are generally scarce; the scattered few include *Acacia excelsa* (Ironwood) and *Eremophila mitchellii* (False Sandalwood). Patches of *Enchylaena tomentosa* (Ruby Saltbush) and *Sclerolaena birchii* (Galvanised Burr) are also present.

Ground cover is dominated by *Pennisetum ciliare* (Buffel Grass) throughout the corridor. Small pockets of native grass species present include *Sporobolus creber* (Western Rats Tail Grass) and *Bothriochloa bladhii* subsp. *Bladhii* (Forest Blue Grass).

Three (3) Type A restricted plants were located within the water pipeline corridor. The details and locations of these plants are given below in Table 3.1.

Table 3.1 Location of type A restricted plants (*Nature Conservation Act 1992*)

Species	Easting (GDA 94, Zone 55J)	Northing (GDA 94, Zone 55J)
<i>Brachychiton populneus</i>	699563	7072508
<i>Brachychiton populneus</i>	699601	7072514
<i>Brachychiton rupestris</i>	700053	7072614

Acacia harpophylla (Brigalow) which is listed as an endangered community EPBC Act was recorded in two (2) locations within the corridor. The details and locations of these are given below in Table 3.2.

Table 3.2 Location of significant species (*EPBC Act 1999*)

Species	Easting (GDA 94, Zone 55J)	Northing (GDA 94, Zone 55J)
<i>Acacia harpophylla</i>	699300	7072415
<i>Acacia harpophylla</i>	699300	7072424

Habitat values

The cleared areas within this corridor and associated pads are considered to have low habitat value. This is due to the lack of suitable habitat attributes.

The scattered paddock trees present within the corridor represent potential habitat for generalist species.

Eleven (11) incidental fauna sightings were made during surveys, species recorded include: Australian Magpie (*Gymnorhina tibicen*), Sulfur-crested Cockatoo (*Cacatua galerita*), Richard's Pipit (*Anthus novaeseelandiae*), Torresian Crow (*Corvus orru*), Eastern Grey Kangaroo (*Macropus giganteus*), Galah (*Cacatua roseicapilla*), Grey Butcher Bird (*Cracticus torquatus*), Pied Butcher Bird (*Cracticus nigrogularis*), Apostle Bird (*Struthidea cinerea*), Striated Pardalote (*Pardalotus striatus*) and Variegated Fairy Wren (*Malurus lamberti*).

No EVNT fauna was observed within the proposed water pipeline corridor and associated pads.

3.2 Corridor R4 (partial)

General

Corridor R4 runs south-east along the northern boundary of Lot 4 RP858912 along the Bend Road. This corridor is only partially located within corridor R4, and the remainder will be assessed in the appropriate report (Lot 1 CP848049). 7699-TP-15 is partially located within this corridor. Corridor R4 and associated pad 7699-TP-15 can be seen in Figure 3.2 and Figure 3.3 respectively.

The majority of Lot 4 has been cleared for grazing; however corridor R4 is situated along the roadside which still contains scattered canopy trees. The remaining vegetation is relatively narrow and as such is still highly disturbed due to the surrounding cleared land.

No RE mapping exists for the vegetation present within the corridor. Pad 799-TP-15 is mapped as non-remnant.

There are no mapped ESAs within corridor R4, however there is a mapped ESA (RE 11.9.5 'endangered', and RE 11.3.25/11.3.2 'of concern') approximately 1km north of the corridor.

Acacia harpophylla (Brigalow) which is listed EPBC Act as an endangered community occurs along the road side vegetation along the road side vegetation

No watercourses intersect this corridor. However a stream order 1 water course intersects 7699-TP-15. At the time of surveys this creek was dry, possibly due to a farm dam located 50 m west of the pad area.

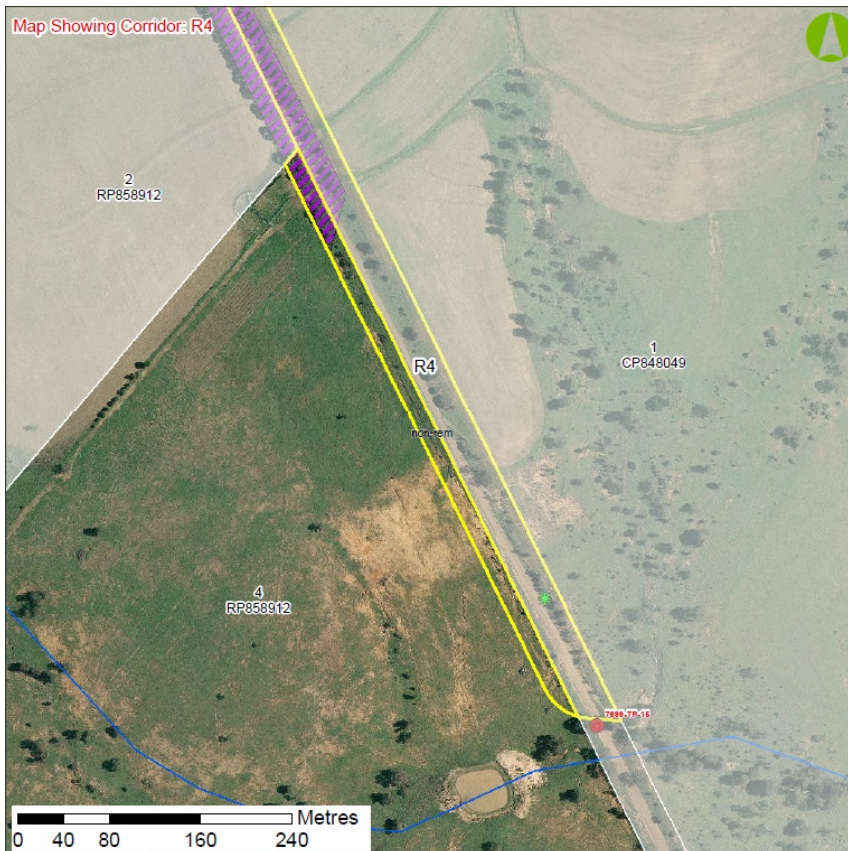


Figure 3.2 Proposed corridor R4 within Lot 4 RP858912

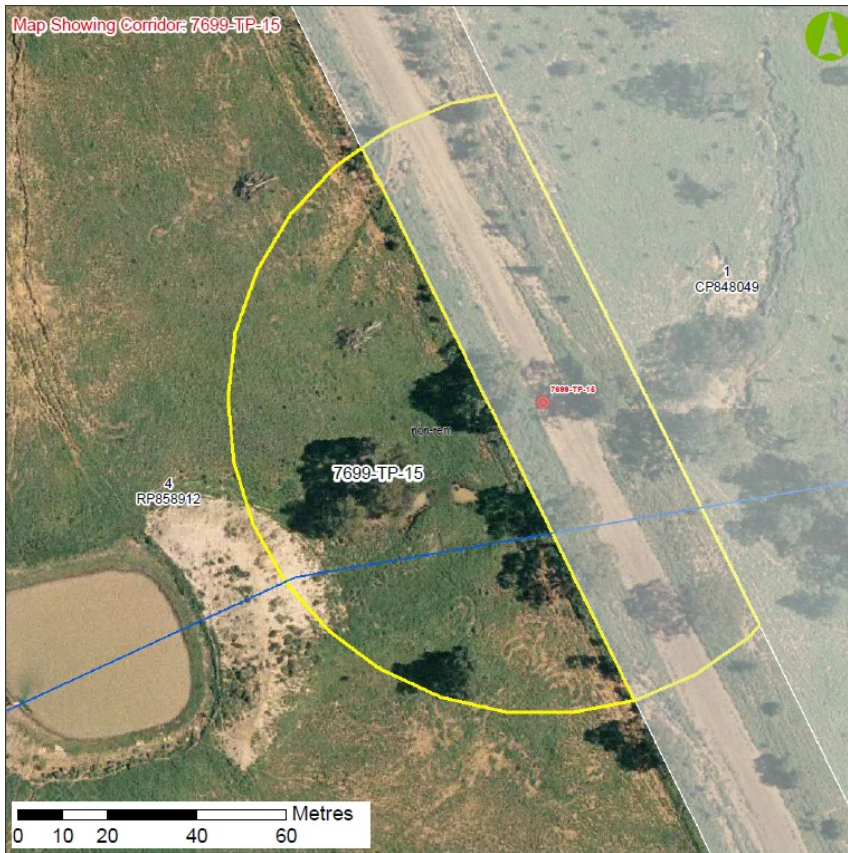


Figure 3.3 Proposed 7699-TP-15 within Lot 4 RP858912

Floristics

This corridor is located within roadside vegetation which is made up of a number of native species. Canopy species present include *Acacia harpophylla* (Brigalow), *Casuarina cristata* (Belah) and *Eucalyptus populnea* (Poplar Box). Mid-storey species include *Acacia leiocalyx* (Black Wattle), *Geijera parviflora* (Wilga), and *Canthium oleifolium* (Hatstand). Ground cover species are a mixture of native and introduced species including *Themeda triandra* (Kangaroo Grass), *Sporobolus creber* (Western Rats Tail Grass), *Xanthium occidentale* (Noogoora Burr), and *Bothriochloa bladhii subsp. Bladhii* (Forest Blue Grass). Pasture species such as *Sorghum* sp. also have encroached from neighbouring cultivation.

No mapped ESAs occur within the corridor; however there are scattered *Acacia harpophylla* (Brigalow) throughout the road side vegetation.

One (1) Type A restricted species was located within corridor R4. The details and location of this record is shown below in Table 3.3.

Table 3.3 Location of type A restricted plants (*Nature Conservation Act 1992*)

Species	Easting (GDA 94, Zone 55J)	Northing (GDA 94, Zone 55J)
<i>Brachychiton populneus</i>	700190	7072889

As mentioned above, *Acacia harpophylla* (Brigalow) which is listed as an endangered community under the EPBC Act is scattered throughout the roadside vegetation present within this corridor. Coordinates of the approximate start and end of the road side population is shown below in Table 3.4.

Table 3.4 Location of EVNT species

Species	Easting (GDA 94, Zone 55J)	Northing (GDA 94, Zone 55J)
<i>Acacia harpophylla</i>	699993	7073242

Habitat values

The vegetation present alongside the road and within the corridor represents moderate habitat value. This is due to the presence of some vegetative structure, fallen timber and dense vegetation in parts.

The narrowness of the vegetation restricts the fauna species that potentially may utilise the area.

The road-side vegetation within this corridor gradually joins up with a larger area of vegetation to the east, which indicates that due to the scarcity of vegetation within the area, the present road-side vegetation potentially may be used as a fauna corridor.

A number of incidental fauna species were recorded during surveys. These were identified either by sight, calls, tracks or scats. The species recorded include: Australian Magpie (*Gymnorhina tibicen*), Sulfur-crested Cockatoo (*Cacatua galerita*), Richard's Pipit (*Anthus novaeseelandiae*), Torresian Crow (*Corvus orru*), Galah (*Cacatua roseicapilla*), Grey Butcher Bird (*Cracticus torquatus*), Pied Butcher Bird (*Cracticus nigrogularis*), Apostle Bird (*Struthidea cinerea*), Striated Pardalote (*Pardalotus striatus*), Variegated Fairy Wren (*Malurus lamberti*), Noisy Minor (*Manorina melanocephala*), Red Rump Parrot (*Psephotus haematonotus*), Weebill (*Smicrornis brevirostris*), Silvereye (*Zosterops lateralis*), Yellow Thornbill (*Acanthiza nana*), and feral cat (*Felis catus*).

No EVNT fauna species were identified within the corridor.

3.3 Road Corridor**General**

The road corridor runs in a southern direction along the eastern edge of Lot 4 (RP858912). The majority of the road corridor is situated within the limits of the existing Bend Road corridor, and partially within Lot 4 (RP858912). Four (4) test pits are located close to this corridor, these being

The road corridor and associated test pits are situated in an existing road corridor and as such disturbance is high. A thin strip of vegetation is present alongside the road, however this varies in thickness. The eastern and western edges of the road corridor and associated pads are located within cultivated land.

RE mapping lists the corridor as non-remnant vegetation as the corridor is situated within cultivated land and cleared land, with only small patches of vegetation present along the roadside.

There are no Mapped ESAs within the corridor; however the nearest ESA is approximately 1 km north east of the corridor.

One stream order 1 water course runs parallel with the road corridor; this was dry at the time of surveys.

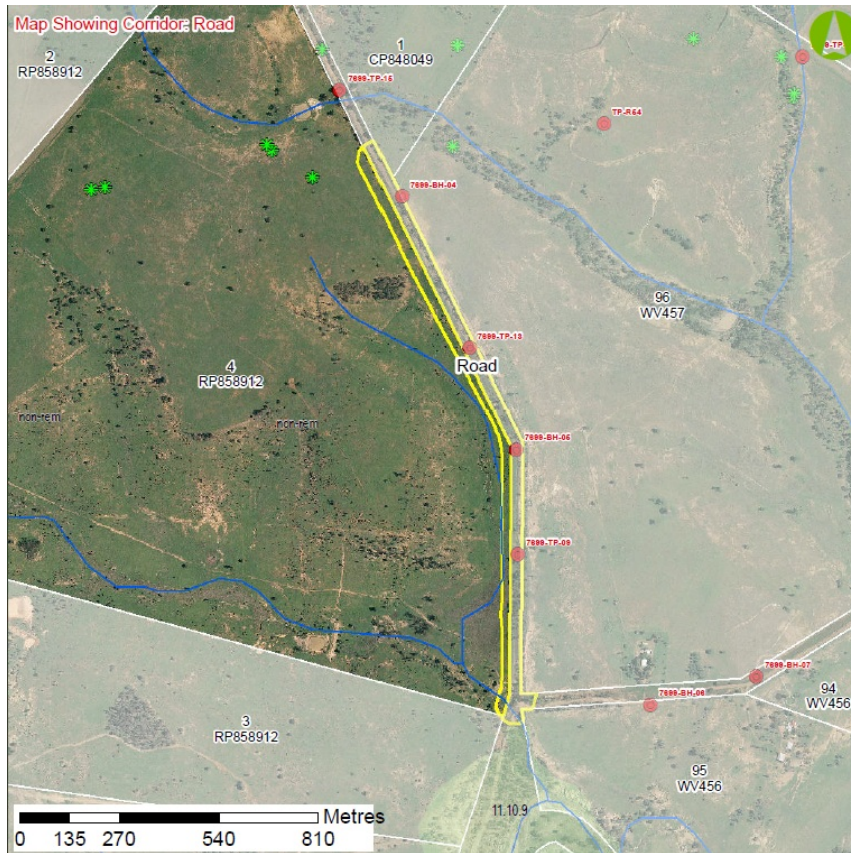


Figure 3.4 Proposed Road corridor within Lot 4 RP858912

Floristics

The majority of vegetation present within the corridor has been cleared for cultivation and grazing. Some vegetation remains along the Bend Road; however much of this is regrowth.

The roadside vegetation which is made up of a number of native and introduced species. Canopy species present include *Acacia harpophylla* (Brigalow), *Casuarina cristata* (Belah) and *Eucalyptus populnea* (Poplar Box). Mid-storey species include *Acacia leiocalyx* (Black Wattle), *Geijera parviflora* (Wilga), and *Canthium oleifolium* (Hatstand). Ground cover species are a mixture of native and introduced species including *Themeda triandra* (Kangaroo Grass), *Sporobolus creber* (Western Rats Tail Grass), and *Bothriochloa bladhii* subsp. *Bladhii* (Forest Blue Grass). Scattered mature *Opuntia tomentosa* (Velvety Tree Pear) are present throughout the corridor.

Crop species such as *Sorghum bicolor*, also have encroached from neighbouring cultivation.

No mapped ESAs occur within the corridor; however there are scattered *Acacia harpophylla* (Brigalow) which is listed as an EVNT species under both the NC and EPBC Acts, throughout the road side vegetation.

No Type A restricted plants were identified during surveys.

Habitat values

The vegetation present alongside the road and within the corridor represents moderate to high habitat value. This is due to the presence of some vegetative structure, fallen timber and dense vegetation in parts.

The narrowness of the vegetation restricts the fauna species that potentially may utilise the area.

A number of incidental fauna species were recorded during surveys. These were identified either by sight, calls, tracks or scats. The species recorded include: Australian Magpie (*Gymnorhina tibicen*), Sulfur-crested Cockatoo (*Cacatua galerita*), Richard's Pipit (*Anthus novaeseelandiae*), Torresian Crow (*Corvus orru*), Galah (*Cacatua roseicapilla*), Grey Butcher Bird (*Cracticus torquatus*), Pied Butcher Bird (*Cracticus nigrogularis*), Apostle Bird (*Struthidea cinerea*), Striated Pardalote (*Pardalotus striatus*), Variegated Fairy Wren (*Malurus lamberti*), Noisy Minor (*Manorina melanocephala*), Red Rump Parrot (*Psephotus haematonotus*), Weebill (*Smicrornis brevirostris*), Silvereye (*Zosterops lateralis*), Yellow Thornbill (*Acanthiza nana*), and feral cat (*Felis catus*).

No EVNT fauna species were identified within the corridor.

4. Conclusion

The corridors and associated pads within Lot 4 (RP858912) occur predominantly across cleared and landscapes and vegetation types. While most of the vegetation is cleared, small pockets along the roadsides remain and within these are found areas of moderate habitat value.

Multiple Type A restricted plant species were observed within the proposed development areas.

Acacia harpophylla (Brigalow) which is protected under the provisions of the EPBC Act was observed within the proposed development areas during these investigations.

5. References

Eddie, C (2007) Field Guide to Trees and Shrubs of Eastern Queensland Oil and Gas Fields, First Edition, Santos Ltd, Adelaide.

Regional Ecosystem Mapping, Version 6.0, Queensland Government Department of Environment and Resource Management (DERM).



Appendix A
Flora species list



Appendix A

Flora Species List			
Scientific Name	Common Name	R4	Water pipeline
<i>Cheilanthes aspera</i>	Bristly cloak fern		
<i>Cheilanthes sieberi</i>	Mulga Fern		
<i>Alstonia constricta</i>	Bitter Bark		
<i>Carissa ovata</i>	Currant Bush		
<i>Gomphocarpus physocarpus</i>	Balloon Cotton Bush		
<i>Marsdenia lanceolata</i>	Marsdenia		
<i>Bidens pilosa</i>	Cobblers Pegs		
<i>Bracteantha bracteata</i>	Everlasting Daisy		
<i>Calotis lappulacea</i>	Yellow Burr Daisy		
<i>Calotis scabiosifolia</i>	Rough Daisy Burr		
<i>Cirsium vulgare</i>	Spear Thistle, Black Thistle		
<i>Pterocaulon sphacelatum</i>	Apple Bush		
<i>Sonchus oleraceus</i>	Sow Thistle		
<i>Tagetes minuta</i>	Stinking Rodger		
<i>Xanthium occidentale</i>	Noogoora Burr		
<i>Calotis cuneifolia</i>	Purple Burr Daisy		
<i>Chrysocephalum apiculatum</i>	Yellow Buttons		
<i>Conyza bonariensis</i>	Fleabane		
<i>Pandorea pandorana</i>	Wonga Vine		
<i>Lepidium sagittulatum</i>	Pepper Cress		
<i>Capsella bursa-pastoris</i>	Shepherd's purse		
<i>Harrisia spp</i>	Harrisia cactus		
<i>Opuntia tomentosa</i>	Velvety Tree Pear		
<i>Opuntia stricta</i>	Prickly Pear		
<i>Apophyllum anomalum</i>	Warrior bush		
<i>Capparis loranthifolia</i>	Nipan, Wait a while		
<i>Capparis spinosa</i>	Capparis midsize		
<i>Allocasuarina luehmannii</i>	Bull Oak		
<i>Casuarina cristata</i>	Belah		
<i>Chenopodium desertorum</i>	Desert Goosefoot		
<i>Maireana microphylla</i>	Small-leaf Bluebush		
<i>Maireana villosa</i>	Silky Bluebush		
<i>Salsola kali</i>	Roly Poly		
<i>Sclerolaena birchii</i>	Galvanised Burr		
<i>Enchylaena tomentosa</i>	Ruby Saltbush		
<i>Cucumis myriocarpus</i>	Paddy melon		
<i>Cyperus difformis</i>	sedge 2 - difformis, Dirty Dora		

Flora Species List			
Scientific Name	Common Name	R4	Water pipeline
<i>Fimbristylis dichotoma</i>	Fimbristylis		
<i>Euphorbia peplus</i>	Petty Spurge		
<i>Crotalaria dissitiflora</i>	Grey Rattlepod		
<i>Desmodium varians</i>	Tree Foil		
<i>Glycine tomentella</i>	Hairy Glycine		
<i>Medicago polymorpha</i>	Burr Medic		
<i>Tephrosia supina</i>	Tephrosia		
<i>Acacia deanei</i>	Dean's Wattle		
<i>Acacia excelsa</i>	Iron wood		
<i>Acacia harpophylla</i>	Brigalow		
<i>Acacia leiocalyx</i>	Black Wattle		
<i>Acacia macradenia</i>	Zigzag Wattle		
<i>Acacia salicina</i>	Sally Wattle		
<i>Goodenia glabra</i>	Smooth Goodenia		
<i>Juncus usitatus</i>	Juncus		
<i>Lomandra hystrix</i>	Creek Mat Rush		
<i>Lomandra multiflora</i>	Lomandra		
<i>Abutilon oxycarpum</i>	Chinese Lantern		
<i>Malvastrum americanum</i>	Spiny Malvastrum		
<i>Sida platycalyx</i>	Sida		
<i>Sida rohlenae</i>	Shrub Sida		
<i>Sida subspicata</i>	Queensland Hemp		
<i>Owenia acidula</i>	Emu Apple		
<i>Eremophila mitchellii</i>	False Sandalwood		
<i>Eucalyptus chloroclada</i>	Baradine Red Gum		
<i>Eucalyptus melanophloia</i>	Silver Leaved Ironbark		
<i>Eucalyptus orgadophila</i>	Mountain Coolibah		
<i>Eucalyptus populnea</i>	Poplar Box		
<i>Jasminum didymum subsp. racemosum</i>	Native Jasmine		
<i>Oxalis stricta</i>	Yellow Wood Sorrel		
<i>Phyllanthus gunnii</i>	Phyllanthus		
<i>Pittosporum angustifolium</i>	Native Apricot		
<i>Aristida caput medusae</i>	Many-headed Wire Grass		
<i>Aristida holathera</i>	Tall Wire Grass		
<i>Aristida jerichoensis</i>	Jericho wire grass		
<i>Austrostipa verticillata</i>	Slender Bamboo Grass		
<i>Bothriochloa bladhii subsp. bladhii</i>	Forest Blue Grass		
<i>Bothriochloa decipiens var. decipiens</i>	Pitted Bluegrass		
<i>Bothriochloa ewartiana</i>	Desert Blue Grass		
<i>Chloris gayana</i>	Rhodes Grass		

Flora Species List			
Scientific Name	Common Name	R4	Water pipeline
<i>Chloris pectinata</i>	Comb Chloris		
<i>Dichanthium sericeum</i>	Queensland Blue Grass		
<i>Digitaria ammophila</i>	Digitaria		
<i>Enneapogon avenaceus</i>	Bottle Washer		
<i>Enteropogon acicularis</i>	Curly Windmill Grass		
<i>Enteropogon ramosus</i>	Twirly Windmill Grass		
<i>Eragrostis brownii</i>	Browns Lovegrass		
<i>Eragrostis sororia</i>	Woodland Lovegrass		
<i>Melinis repens</i>	Red Natal		
<i>Panicum buncei</i>	Native Panic		
<i>Panicum decompositum</i>	Hairy Panic		
<i>Panicum simile</i>	Two-coloured Panic		
<i>Pennisetum ciliare</i>	Buffel Grass		
<i>Sorghum alum</i>	Silk Sorghum		
<i>Sorghum plumosa</i>	Plume sorghum		
<i>Sporobolus caroli</i>	Desert Sporobolus, Fairy Grass		
<i>Sporobolus creber</i>	Western Rats Tail Grass		
<i>Themeda avenacea</i>	Wild Oats Grass		
<i>Themeda triandra</i>	Kangaroo Grass		
<i>Urochloa mosambicensis</i>	Urochloa, Sabi Grass		
<i>Aristida calycina</i>	Dark Wiregrass		
<i>Aristida muricata</i>	Wire Grass		
<i>Chloris divaricata</i>	Windmill Chloris		
<i>Eragrostis leptostachya</i>	Lovegrass		
<i>Paspalum dilatatum</i>	Paspalum		
<i>Rumex brownii</i>	Swamp Dock		
<i>Emex australis</i>	Goathead Burr		
<i>Grevillea striata</i>	Beefwood		
<i>Ranunculus lappaceus</i>	Australian Buttercup		
<i>Canthium oleifolium</i>	Hat stand, Wild Lemon		
<i>Psydrax odorata subsp. australiana</i>	Canthium		
<i>Geijera parviflora</i>	Wilga		
<i>Exocarpus cupressifolia</i>	Bush Cherry		
<i>Alectryon diversifolius</i>	Scrub Boonaree		
<i>Atalaya hemiglauca</i>	Whitewood		
<i>Solanum brownii</i>	Violet Nightshade		
<i>Solanum ellipticum</i>	Potato Bush		
<i>Solanum nigrum</i>	Blackberry nightshade		
<i>Brachychiton populneus</i>	Kurrajong		
<i>Verbena bonariensis</i>	Bunchy Verbena, Purpletop Verbena		

Flora Species List			
Scientific Name	Common Name	R4	Water pipeline
<i>Verbena officinalis</i>	Common Verbena, Native Verbena		
<i>Verbena tenuisecta</i>	Mayne's Curse		
<i>Zygophyllum howittii</i>	Red twinleaf		