



APPENDIX Q

JACOBS®

Q1. EMR searches



Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50526810 EMR Site Id: 21610 24 April 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 22 Plan: GS1042

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 22 Plan: GS1018
Address: DALBEG ROAD
BARRATTAS 4809

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
LIVESTOCK DIP OR SPRAY RACE - operating a livestock dip or spray race facility.

For the majority of rural properties only a small area may be affected by the chemicals used in livestock dips and spray races. The Department of Environment and Science may hold further information relating to the location of the dip site within this property.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

Administering Authority



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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50526809 EMR Site Id: 24 April 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 1 Plan: AP3570
BARRATTA RD
UPPER HAUGHTON

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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SEARCH RESPONSE
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CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50529464 EMR Site Id: 10 May 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 33 Plan: SP117630
4375 AYR DALBEG RD
MULGRAVE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50526807 EMR Site Id: 24 April 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 71 Plan: SP289517

MULGRAVE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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SEARCH RESPONSE
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CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50526801 EMR Site Id: 24 April 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 3 Plan: SP302825
831 KEITH VENABLES RD
UPPER HAUGHTON

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50529463 EMR Site Id: 10 May 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 1 Plan: GS1006
AYR DALBEG RD
MULGRAVE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50526802 EMR Site Id: 24 April 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 2 Plan: SP302825
829 KEITH VENABLES RD
UPPER HAUGHTON

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50529462 EMR Site Id: 10 May 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 7 Plan: GS947
KEITH VENABLES RD
UPPER HAUGHTON

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

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ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Haofei Zhi
32 Cordelia St,
South Brisbane QLD 4101

Transaction ID: 50529461 EMR Site Id: 10 May 2019
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 8 Plan: SP123168
BLACK RD
UPPER HAUGHTON

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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Administering Authority

Q2. Ecological searches



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 22/03/19 10:53:33

[Summary](#)

[Details](#)

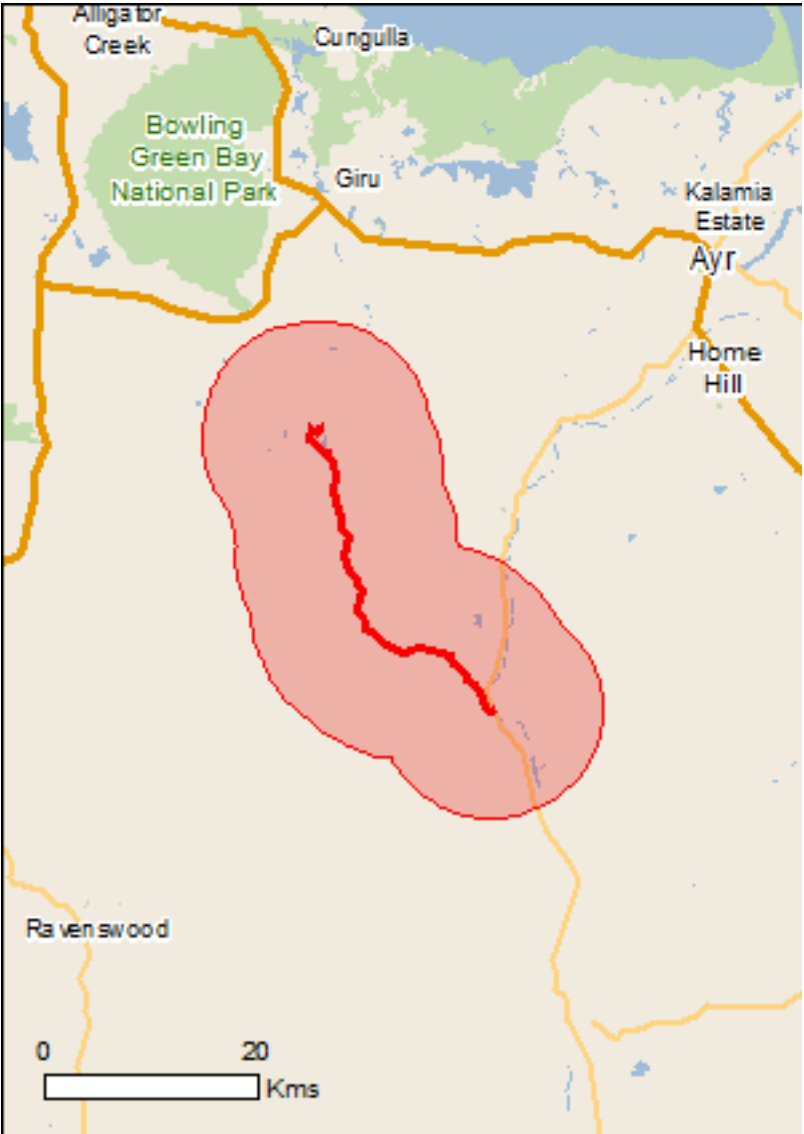
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

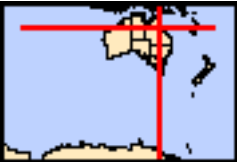
[Acknowledgements](#)



This map may contain data which are
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[Coordinates](#)

[Buffer: 10.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	20
Listed Migratory Species:	18

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	23
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	31
Nationally Important Wetlands:	2
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)		[Resource Information]
Name	Proximity	
Bowling green bay	10 - 20km upstream	

Listed Threatened Ecological Communities		[Resource Information]
For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.		

Name	Status	Type of Presence
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Erythroriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat known to occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat may occur within

Name	Status	Type of Presence
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)		
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
Saccolaimus saccolaimus nudicluniatus		
Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Dichanthium setosum		
bluegrass [14159]	Vulnerable	Species or species habitat known to occur within area
Eucalyptus raveretiana		
Black Ironbox [16344]	Vulnerable	Species or species habitat likely to occur within area
Marsdenia brevifolia		
[64585]	Vulnerable	Species or species habitat may occur within area
Omphalea celata		
[64586]	Vulnerable	Species or species habitat likely to occur within area
Reptiles		
Denisonia maculata		
Ornamental Snake [1193]	Vulnerable	Species or species habitat may occur within area
Egernia rugosa		
Yakka Skink [1420]	Vulnerable	Species or species habitat likely to occur within area
Lerista vittata		
Mount Cooper Striped Skink, Mount Cooper Striped Lerista [1308]	Vulnerable	Species or species habitat may occur within area
Sharks		
Pristis pristis		
Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat likely to occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Marine Species		
Crocodylus porosus		
Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Pristis pristis		
Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Cuculus optatus		
Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus		
White-throated Needletail [682]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area

Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species	[<u>Resource Information</u>]	
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail [682]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat known to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat may occur within area

Reptiles	
Crocodylus porosus	
Salt-water Crocodile, Estuarine Crocodile [1774]	Species or species habitat likely to occur within area

Extra Information

Invasive Species

[[Resource Information](#)]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Lonchura punctulata Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Cabomba caroliniana Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171] Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False		Species or species

Name	Status	Type of Presence
Ragweed [19566]		habitat likely to occur within area
Salvinia molesta		
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Vachellia nilotica		
Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]		Species or species habitat likely to occur within area

Reptiles		
Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Nationally Important Wetlands	[Resource Information]
Name	State
Barrattas Channels Aggregation	QLD
Haughton Balancing Storage Aggregation	QLD

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-19.929431 147.220943,-19.930944 147.217038,-19.926647 147.211866,-19.915571 147.207124,-19.911133 147.202704,-19.90502 147.197578,-19.902135 147.196503,-19.894972 147.191117,-19.893741 147.186074,-19.887607 147.18277,-19.885004 147.177362,-19.881332 147.158995,-19.882361 147.14951,-19.883995 147.144875,-19.883471 147.13891,-19.878123 147.129276,-19.870253 147.119963,-19.866136 147.112903,-19.860486 147.111187,-19.851747 147.106187,-19.841131 147.107711,-19.835963 147.109556,-19.832774 147.108161,-19.829888 147.105694,-19.827425 147.104621,-19.823489 147.103977,-19.819835 147.098462,-19.809721 147.093484,-19.793005 147.098913,-19.793005 147.098913,-19.78612 147.09239,-19.77982 147.092218,-19.756477 147.086403,-19.745713 147.087669,-19.734605 147.08591,-19.730424 147.080824,-19.728444 147.080867,-19.728424 147.079687,-19.717093 147.065825,-19.709558 147.066641,-19.710326 147.07046,-19.708891 147.073936,-19.709922 147.075181,-19.709396 147.075868

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.



Queensland Government

Wildlife Online Extract

Search Criteria: Species List for a Defined Area
Species: All
Type: All
Status: All
Records: All
Date: All
Latitude: 19.6233 to 20.0054
Longitude: 147.0163 to 147.2706
Email: Damien.Sloots@jacobs.com
Date submitted: Friday 22 Mar 2019 09:59:53
Date extracted: Friday 22 Mar 2019 10:00:02

The number of records retrieved = 271

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

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Feedback about Wildlife Online should be emailed to wildlife.online@science.dsitia.qld.gov.au

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	amphibians	Bufonidae	<i>Rhinella marina</i>	cane toad	Y			1
animals	birds	Accipitridae	<i>Milvus migrans</i>	black kite		C		4
animals	birds	Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite		C		4
animals	birds	Accipitridae	<i>Circus approximans</i>	swamp harrier		C		1
animals	birds	Accipitridae	<i>Haliastur sphenurus</i>	whistling kite		C		3
animals	birds	Anatidae	<i>Dendrocygna eytoni</i>	plumed whistling-duck		C		1
animals	birds	Anatidae	<i>Nettapus coromandelianus</i>	cotton pygmy-goose		C		1
animals	birds	Anatidae	<i>Anas superciliosa</i>	Pacific black duck		C		2
animals	birds	Anatidae	<i>Aythya australis</i>	hardhead		C		2
animals	birds	Anatidae	<i>Cygnus atratus</i>	black swan		C		1
animals	birds	Anatidae	<i>Anas gracilis</i>	grey teal		C		1
animals	birds	Anhingidae	<i>Anhinga novaehollandiae</i>	Australasian darter		C		3
animals	birds	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose		C		1
animals	birds	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret		C		2
animals	birds	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron		C		1
animals	birds	Ardeidae	<i>Ardea intermedia</i>	intermediate egret		C		1
animals	birds	Ardeidae	<i>Bubulcus ibis</i>	cattle egret		C		1
animals	birds	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron		C		1
animals	birds	Artamidae	<i>Cracticus nigrogularis</i>	pied butcherbird		C		5
animals	birds	Artamidae	<i>Artamus leucorhynchus</i>	white-breasted woodswallow		C		3
animals	birds	Artamidae	<i>Cracticus tibicen</i>	Australian magpie		C		3
animals	birds	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew		C		1
animals	birds	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo		C		4
animals	birds	Cacatuidae	<i>Calyptorhynchus banksii</i>	red-tailed black-cockatoo		C		1
animals	birds	Campephagidae	<i>Coracina novaehollandiae</i>	black-faced cuckoo-shrike		C		1
animals	birds	Campephagidae	<i>Coracina papuensis</i>	white-bellied cuckoo-shrike		C		1
animals	birds	Campephagidae	<i>Lalage leucomela</i>	varied triller		C		1
animals	birds	Campephagidae	<i>Lalage tricolor</i>	white-winged triller		C		1
animals	birds	Charadriidae	<i>Elseya melanops</i>	black-fronted dotterel		C		1
animals	birds	Charadriidae	<i>Vanellus miles</i>	masked lapwing		C		5
animals	birds	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	black-necked stork		C		1
animals	birds	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola		C		1
animals	birds	Columbidae	<i>Geopelia striata</i>	peaceful dove		C		1
animals	birds	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove		C		1
animals	birds	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird		C		1
animals	birds	Corvidae	<i>Corvus orru</i>	Torresian crow		C		3
animals	birds	Cuculidae	<i>Cacomantis variolosus</i>	brush cuckoo		C		1
animals	birds	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal		C		2
animals	birds	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo		C		3
animals	birds	Estrildidae	<i>Neochmia phaeton</i>	crimson finch		C		5
animals	birds	Estrildidae	<i>Lonchura punctulata</i>	nutmeg mannikin	Y			1
animals	birds	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin		C		2
animals	birds	Estrildidae	<i>Neochmia modesta</i>	plum-headed finch		C		1
animals	birds	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel		C		1
animals	birds	Falconidae	<i>Falco berigora</i>	brown falcon		C		1
animals	birds	Halcyonidae	<i>Todiramphus macleayii</i>	forest kingfisher		C		2

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher		C		1
animals	birds	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra		C		4
animals	birds	Halcyonidae	<i>Dacelo leachii</i>	blue-winged kookaburra		C		4
animals	birds	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow		C		2
animals	birds	Hirundinidae	<i>Petrochelidon ariel</i>	fairy martin		C		1
animals	birds	Hirundinidae	<i>Petrochelidon nigricans</i>	tree martin		C		1
animals	birds	Jacanidae	<i>Irediparra gallinacea</i>	comb-crested jacana		C		1
animals	birds	Laridae	<i>Chlidonias hybrida</i>	whiskered tern		C		1
animals	birds	Maluridae	<i>Malurus melanocephalus</i>	red-backed fairy-wren		C		2
animals	birds	Megapodiidae	<i>Alectura lathamii</i>	Australian brush-turkey		C		1
animals	birds	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner		C		2
animals	birds	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird		C		1
animals	birds	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater		C		3
animals	birds	Meliphagidae	<i>Manorina flavigula</i>	yellow-throated miner		C		2
animals	birds	Meliphagidae	<i>Stomiopera unicolor</i>	white-gaped honeyeater		C		2
animals	birds	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird		C		1
animals	birds	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater		C		2
animals	birds	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark		C		6
animals	birds	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher		C		1
animals	birds	Motacillidae	<i>Anthus novaeseelandiae</i>	Australasian pipit		C		2
animals	birds	Nectariniidae	<i>Nectarinia jugularis</i>	olive-backed sunbird		C		1
animals	birds	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird		C		2
animals	birds	Otididae	<i>Ardeotis australis</i>	Australian bustard		C		4
animals	birds	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican		C		3
animals	birds	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant		C		3
animals	birds	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	great cormorant		C		1
animals	birds	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant		C		2
animals	birds	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella		C		3
animals	birds	Psittacidae	<i>Trichoglossus haematodus moluccanus</i>	rainbow lorikeet		C		4
animals	birds	Psittacidae	<i>Aprosmictus erythropterus</i>	red-winged parrot		C		1
animals	birds	Ptilonorhynchidae	<i>Ptilonorhynchus nuchalis</i>	great bowerbird		C		3
animals	birds	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen		C		1
animals	birds	Recurvirostridae	<i>Recurvirostra novaehollandiae</i>	red-necked avocet		C		1
animals	birds	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt		C		2
animals	birds	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail		C		3
animals	birds	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail		C		2
animals	birds	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis		C		3
animals	birds	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill		C		1
animals	birds	Threskiornithidae	<i>Plegadis falcinellus</i>	glossy ibis		SL		1
animals	birds	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis		C		3
animals	birds	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill		C		1
animals	mammals	Macropodidae	<i>Petrogale assimilis</i>	allied rock-wallaby		C		1/1
animals	mammals	Macropodidae	<i>Petrogale inornata</i>	unadorned rock-wallaby		C		2/2
animals	mammals	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala		V	V	1
animals	ray-finned fishes	Ambassidae	<i>Ambassis species</i>	northwest glassfish				2
animals	ray-finned fishes	Ambassidae	<i>Ambassis agassizii</i>	Agassiz's glassfish				1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	ray-finned fishes	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel				1
animals	ray-finned fishes	Apogonidae	<i>Glossamia aprion</i>	mouth almighty				2
animals	ray-finned fishes	Ariidae	<i>Neoarius graeffei</i>	blue catfish				2
animals	ray-finned fishes	Atherinidae	<i>Craterocephalus stercusmuscarum</i>	flyspecked hardyhead				11
animals	ray-finned fishes	Belonidae	<i>Strongylura krefftii</i>	freshwater longtom				1
animals	ray-finned fishes	Centropomidae	<i>Lates calcarifer</i>	barramundi				4
animals	ray-finned fishes	Clupeidae	<i>Nematalosa erebi</i>	bony bream				25
animals	ray-finned fishes	Eleotridae	<i>Oxyeleotris lineolata</i>	sleepy cod				19
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon				1
animals	ray-finned fishes	Gobiidae	<i>Awaous acritosus</i>	roman-nose goby				1
animals	ray-finned fishes	Hemiramphidae	<i>Arrhamphus sclerolepis</i>	snubnose garfish				5
animals	ray-finned fishes	Megalopidae	<i>Megalops cyprinoides</i>	oxeye herring				1
animals	ray-finned fishes	Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	eastern rainbowfish				3
animals	ray-finned fishes	Mugilidae	<i>Mugil cephalus</i>	sea mullet				1
animals	ray-finned fishes	Plotosidae	<i>Neosilurus hyrtl</i>	Hyrtl's catfish				1
animals	ray-finned fishes	Plotosidae	<i>Neosilurus ater</i>	black catfish				1
animals	ray-finned fishes	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	Y			1
animals	ray-finned fishes	Scatophagidae	<i>Scatophagus argus</i>	spotted scat				1
animals	ray-finned fishes	Terapontidae	<i>Leiopotherapon unicolor</i>	spangled perch				1
animals	ray-finned fishes	Terapontidae	<i>Hephaestus fuliginosus</i>	sooty grunter				4
animals	ray-finned fishes	Terapontidae	<i>Amniataba percoides</i>	barred grunter				7
animals	ray-finned fishes	Terapontidae	<i>Scortum parviceps</i>	smallhead grunter				1
animals	ray-finned fishes	Toxotidae	<i>Toxotes chatareus</i>	sevenspot archerfish				1
animals	reptiles	Gekkonidae	<i>Gehyra dubia</i>	dubious dtella			C	1/1
plants	Equisetopsida	Acanthaceae	<i>Nelsonia campestris</i>				C	1/1
plants	Equisetopsida	Acanthaceae	<i>Hygrophila angustifolia</i>				C	1/1
plants	Equisetopsida	Alismataceae	<i>Caldesia oligococca</i>				C	1/1
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera ficoidea</i>		Y			1/1
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera denticulata</i> var. <i>micrantha</i>				C	3/3
plants	Equisetopsida	Amaranthaceae	<i>Deeringia amaranthoides</i>	redberry			C	1/1
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera nodiflora</i>	joyweed			C	1/1
plants	Equisetopsida	Amaranthaceae	<i>Amaranthus spinosus</i>	needle burr	Y			2/2
plants	Equisetopsida	Anacardiaceae	<i>Pleiogynium timorense</i>	Burdekin plum			C	1/1
plants	Equisetopsida	Apocynaceae	<i>Alyxia spicata</i>				C	1/1
plants	Equisetopsida	Apocynaceae	<i>Cryptostegia grandiflora</i>	rubber vine	Y			2/2
plants	Equisetopsida	Apocynaceae	<i>Wrightia saligna</i>				C	1/1
plants	Equisetopsida	Araceae	<i>Lemna aequinoctialis</i>	common duckweed			C	1/1
plants	Equisetopsida	Asteraceae	<i>Eclipta prostrata</i>	white eclipta	Y			2/2
plants	Equisetopsida	Asteraceae	<i>Centipeda borealis</i>				C	2/2
plants	Equisetopsida	Asteraceae	<i>Sphaeranthus indicus</i>				C	1/1
plants	Equisetopsida	Asteraceae	<i>Acmella grandiflora</i> var. <i>brachyglossa</i>				C	1/1
plants	Equisetopsida	Asteraceae	<i>Parthenium hysterophorus</i>	parthenium weed	Y			1/1
plants	Equisetopsida	Asteraceae	<i>Pseudognaphalium luteoalbum</i>	Jersey cudweed			C	1/1
plants	Equisetopsida	Asteraceae	<i>Acanthospermum hispidum</i>	star burr	Y			1/1
plants	Equisetopsida	Bignoniaceae	<i>Pandorea pandorana</i>	wonga vine			C	1/1
plants	Equisetopsida	Bignoniaceae	<i>Dolichandrone alternifolia</i>				C	1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	Equisetopsida	Boraginaceae	<i>Heliotropium ovalifolium</i>			C		2/2
plants	Equisetopsida	Caesalpiniaceae	<i>Parkinsonia aculeata</i>	parkinsonia	Y			1/1
plants	Equisetopsida	Caryophyllaceae	<i>Polycarpaea spirostylis subsp. spirostylis</i>			C		1/1
plants	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana subsp. cunninghamiana</i>			C		1/1
plants	Equisetopsida	Celastraceae	<i>Denhamia cunninghamii</i>			C		1/1
plants	Equisetopsida	Chenopodiaceae	<i>Chenopodium album</i>	fat-hen	Y			2/2
plants	Equisetopsida	Chenopodiaceae	<i>Dysphania glomulifera subsp. glomulifera</i>			C		1/1
plants	Equisetopsida	Cleomaceae	<i>Cleome viscosa</i>	tick-weed		C		1/1
plants	Equisetopsida	Cleomaceae	<i>Cleome aculeata</i>		Y			1/1
plants	Equisetopsida	Cochlospermaceae	<i>Cochlospermum gillivraei</i>			C		1/1
plants	Equisetopsida	Combretaceae	<i>Terminalia sericocarpa</i>	damson		C		1/1
plants	Equisetopsida	Convolvulaceae	<i>Xenostegia tridentata</i>			C		1/1
plants	Equisetopsida	Convolvulaceae	<i>Argyreia nervosa</i>		Y			1/1
plants	Equisetopsida	Cucurbitaceae	<i>Cucumis anguria var. anguria</i>	West Indian gherkin	Y			1/1
plants	Equisetopsida	Cyperaceae	<i>Fimbristylis bisumbellata</i>			C		1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus scariosus</i>			C		1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus bulbosus</i>			C		1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus iria</i>			C		1/1
plants	Equisetopsida	Ebenaceae	<i>Diospyros geminata</i>	scaly ebony		C		1/1
plants	Equisetopsida	Euphorbiaceae	<i>Jatropha gossypifolia</i>	bellyache bush	Y			1/1
plants	Equisetopsida	Euphorbiaceae	<i>Mallotus philippensis</i>	red kamala		C		2/2
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia bifida</i>			C		1/1
plants	Equisetopsida	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	Y			1/1
plants	Equisetopsida	Fabaceae	<i>Vigna lanceolata</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Flemingia lineata</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Millettia pinnata</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Aeschynomene indica</i>	budda pea		C		1/1
plants	Equisetopsida	Fabaceae	<i>Indigofera linifolia</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Alysicarpus vaginalis</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Vigna sp. (Greta Creek R.J.Lawn+ AQ532201)</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria retusa var. retusa</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria pallida var. obovata</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Zornia muriculata subsp. angustata</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Tephrosia brachyodon var. longifolia</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria sessiliflora var. anthylloides</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Vigna sp. (Station Creek R.J.Lawn CQ3284)</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Tephrosia macrostachya</i>			C		1/1
plants	Equisetopsida	Goodeniaceae	<i>Goodenia pilosa</i>			C		1/1
plants	Equisetopsida	Helicteraceae	<i>Helicteres semiglabra</i>			C		1/1
plants	Equisetopsida	Hydrocharitaceae	<i>Ottelia ovalifolia subsp. ovalifolia</i>			C		1/1
plants	Equisetopsida	Lamiaceae	<i>Ocimum americanum</i>		Y			1/1
plants	Equisetopsida	Lamiaceae	<i>Premna dallachyana</i>			C		1/1
plants	Equisetopsida	Lamiaceae	<i>Leucas lavandulifolia</i>		Y			1/1
plants	Equisetopsida	Lamiaceae	<i>Basilicum polystachyon</i>			C		1/1
plants	Equisetopsida	Lamiaceae	<i>Clerodendrum floribundum</i>			C		3/3
plants	Equisetopsida	Lamiaceae	<i>Plectranthus scutellarioides</i>			C		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	Equisetopsida	Lauraceae	<i>Litsea glutinosa</i>			C		1/1
plants	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i> var. <i>triplinervis</i>			C		1/1
plants	Equisetopsida	Laxmanniaceae	<i>Lomandra longifolia</i>			C		1/1
plants	Equisetopsida	Lentibulariaceae	<i>Utricularia stellaris</i>			C		1/1
plants	Equisetopsida	Malvaceae	<i>Urena lobata</i>	urena weed	Y			1/1
plants	Equisetopsida	Malvaceae	<i>Abutilon auritum</i>	Chinese lantern		C		1/1
plants	Equisetopsida	Marsileaceae	<i>Marsilea mutica</i>	shiny nardoo		C		1/1
plants	Equisetopsida	Martyniaceae	<i>Martynia annua</i>	small-fruited devil's claw	Y			1/1
plants	Equisetopsida	Mimosaceae	<i>Acacia hemslleyi</i>			C		1/1
plants	Equisetopsida	Mimosaceae	<i>Acacia leptostachya</i>	Townsville wattle		C		1/1
plants	Equisetopsida	Mimosaceae	<i>Neptunia monosperma</i>			C		1/1
plants	Equisetopsida	Mimosaceae	<i>Vachellia farnesiana</i>		Y			1/1
plants	Equisetopsida	Mimosaceae	<i>Neptunia major</i>			C		1/1
plants	Equisetopsida	Mimosaceae	<i>Desmanthus leptophyllus</i>		Y			1/1
plants	Equisetopsida	Molluginaceae	<i>Mollugo verticillata</i>		Y			2/2
plants	Equisetopsida	Molluginaceae	<i>Glinus oppositifolius</i>			C		1/1
plants	Equisetopsida	Molluginaceae	<i>Glinus lotoides</i>	hairy carpet weed		C		1/1
plants	Equisetopsida	Myrsinaceae	<i>Lysimachia ovalis</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla</i>	poplar gum		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Melaleuca leucadendra</i>	broad-leaved tea-tree		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Corymbia leichhardtii</i>	rustyjacket		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Corymbia clarksoniana</i>			C		2/2
plants	Equisetopsida	Myrtaceae	<i>Corymbia dallachiana</i>			C		2/2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus raveretiana</i>	black ironbox		C	V	1/1
plants	Equisetopsida	Myrtaceae	<i>Melaleuca nervosa</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Gossia bidwillii</i>			C		3/3
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus drepanophylla</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus xanthoclada</i>	yellow-branched ironbark		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Lophostemon grandiflorus</i> subsp. <i>riparius</i>			C		2/2
plants	Equisetopsida	Myrtaceae	<i>Melaleuca bracteata</i>			C		1/1
plants	Equisetopsida	Nyctaginaceae	<i>Pisonia aculeata</i>	thorny pisonia		C		2/2
plants	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Mexican poppy	Y			1/1
plants	Equisetopsida	Passifloraceae	<i>Passiflora foetida</i>		Y			1/1
plants	Equisetopsida	Phyllanthaceae	<i>Phyllanthus maderaspatensis</i>			C		1/1
plants	Equisetopsida	Phyllanthaceae	<i>Phyllanthus carpentariae</i>			C		1/1
plants	Equisetopsida	Phyllanthaceae	<i>Breynia oblongifolia</i>			C		1/1
plants	Equisetopsida	Phyllanthaceae	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>			C		2/2
plants	Equisetopsida	Picrodendraceae	<i>Petalostigma banksii</i>			C		1/1
plants	Equisetopsida	Pittosporaceae	<i>Bursaria incana</i>			C		1/1
plants	Equisetopsida	Plantaginaceae	<i>Scoparia dulcis</i>	scoparia	Y			1/1
plants	Equisetopsida	Plantaginaceae	<i>Bacopa floribunda</i>			C		1/1
plants	Equisetopsida	Plantaginaceae	<i>Mecardonia procumbens</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Heteropogon triticeus</i>	giant speargrass		C		1/1
plants	Equisetopsida	Poaceae	<i>Chionachne hubbardiana</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Echinochloa turneriana</i>	channel millet		C		1/1
plants	Equisetopsida	Poaceae	<i>Urochloa subquadriflora</i>		Y			1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	Equisetopsida	Poaceae	<i>Dactyloctenium radulans</i>	button grass		C		1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus actinocladus</i>	katoora grass		C		1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus jacquemontii</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus australasicus</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Eriochloa pseudoacrotricha</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Aristida holathera</i> var. <i>holathera</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Panicum decompositum</i> var. <i>decompositum</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i> subsp. <i>polystachyum</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Bothriochloa decipiens</i> var. <i>cloncurrensis</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Elytrophorus spicatus</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Dichanthium annulatum</i>	sheda grass	Y			1/1
plants	Equisetopsida	Poaceae	<i>Alloteropsis cimicina</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Dichanthium fecundum</i>	curly bluegrass		C		2/2
plants	Equisetopsida	Poaceae	<i>Oxychloris scariosa</i>	winged chloris		C		1/1
plants	Equisetopsida	Poaceae	<i>Oryza meridionalis</i>			C		1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus caroli</i>	fairy grass		C		1/1
plants	Equisetopsida	Poaceae	<i>Sorghum halepense</i>	Johnson grass	Y			2/2
plants	Equisetopsida	Poaceae	<i>Leersia hexandra</i>	swamp rice grass		C		1/1
plants	Equisetopsida	Poaceae	<i>Eriochloa crebra</i>	spring grass		C		1/1
plants	Equisetopsida	Poaceae	<i>Dinebra neesii</i>			C		2/2
plants	Equisetopsida	Poaceae	<i>Sorghum x alnum</i>		Y			1/1
plants	Equisetopsida	Polygonaceae	<i>Persicaria decipiens</i>	slender knotweed		C		1/1
plants	Equisetopsida	Polygonaceae	<i>Polygonum plebeium</i>	small knotweed		C		1/1
plants	Equisetopsida	Polygonaceae	<i>Persicaria lapathifolia</i>	pale knotweed		C		2/2
plants	Equisetopsida	Pontederiaceae	<i>Monochoria cyanea</i>			C		1/1
plants	Equisetopsida	Proteaceae	<i>Grevillea parallela</i>			C		1/1
plants	Equisetopsida	Proteaceae	<i>Grevillea glauca</i>	bushy's clothes peg		C		1/1
plants	Equisetopsida	Proteaceae	<i>Grevillea striata</i>	beefwood		C		1/1
plants	Equisetopsida	Pteridaceae	<i>Cheilanthes pumilio</i>			C		1/1
plants	Equisetopsida	Pteridaceae	<i>Cheilanthes brownii</i>			C		1/1
plants	Equisetopsida	Rhamnaceae	<i>Ziziphus mauritiana</i>	Indian jujube	Y			1/1
plants	Equisetopsida	Rubiaceae	<i>Timonius timon</i> var. <i>timon</i>			C		3/3
plants	Equisetopsida	Rubiaceae	<i>Dentella repens</i>	dentella		C		1/1
plants	Equisetopsida	Rubiaceae	<i>Oldenlandia galioides</i>			C		1/1
plants	Equisetopsida	Sapindaceae	<i>Harpullia hillii</i>			C		2/2
plants	Equisetopsida	Sapindaceae	<i>Cardiospermum halicacabum</i> var. <i>halicacabum</i>		Y			1/1
plants	Equisetopsida	Scrophulariaceae	<i>Myoporum acuminatum</i>	coastal boobialla		C		1/1
plants	Equisetopsida	Solanaceae	<i>Nicotiana glauca</i>	tree tobacco	Y			1/1
plants	Equisetopsida	Solanaceae	<i>Solanum torvum</i>	devil's fig	Y			1/1
plants	Equisetopsida	Solanaceae	<i>Datura inoxia</i>		Y			1/1
plants	Equisetopsida	Sparrmanniaceae	<i>Grewia australis</i>			C		1/1

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999*. The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

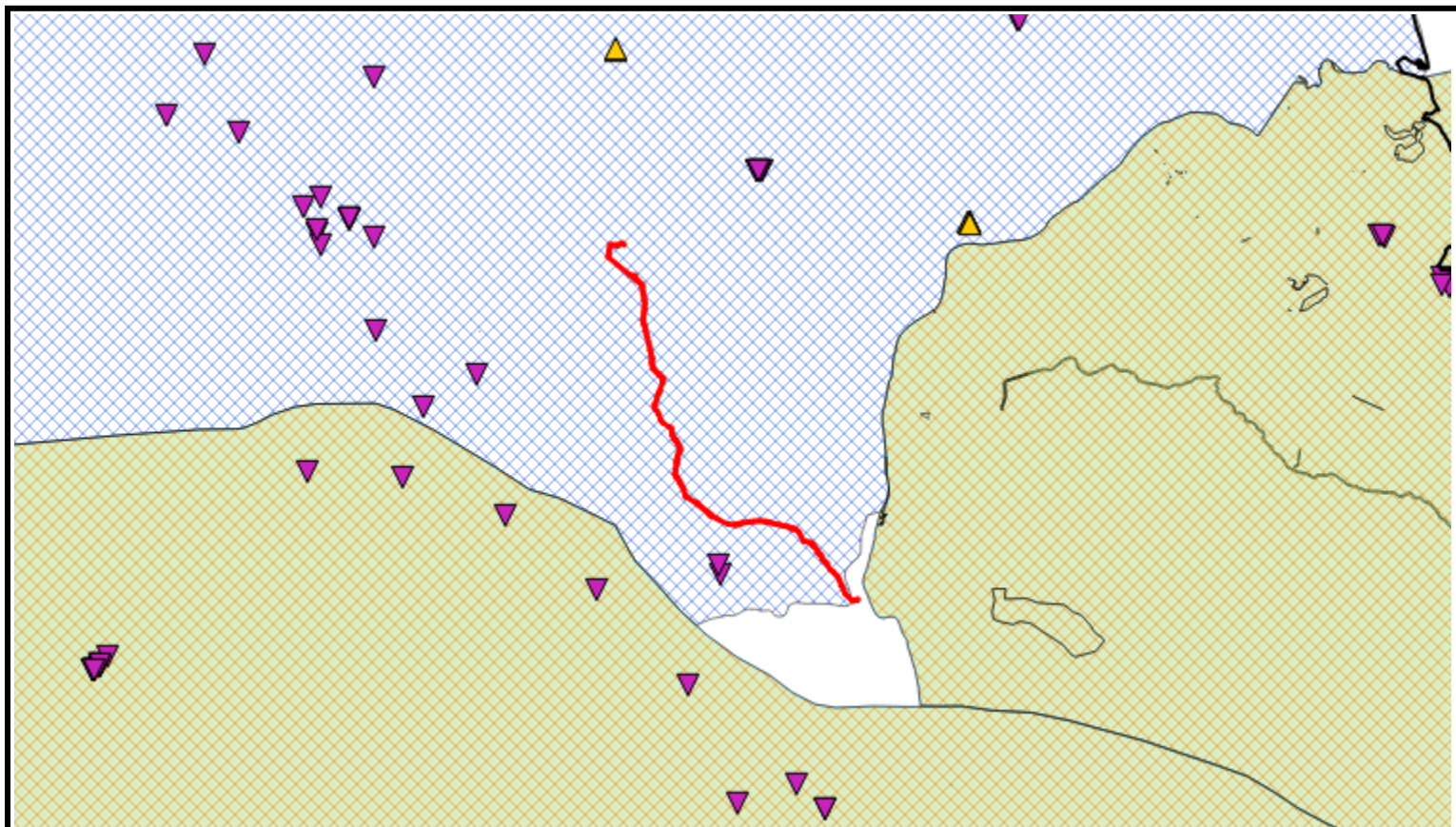
This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.

Q3. Heritage searches

Digital Data Search

Reference Number:	51968
Buffer Distance:	50 metres



There are no Aboriginal or Torres Strait Islander cultural heritage site points recorded in your specific search area.

There are no Aboriginal or Torres Strait Islander cultural heritage site polygons recorded in your specific search area.

Cultural heritage party for the area is:

QC Ref Number	QUD Ref Number	Name	Contact Details
QC2016/005	QUD503/2016	Bindal People #2	Peter Krebs North Queensland Land Council Level 10 61 - 73 Sturt Street Townsville City QLD 4810 Phone: 07 4421 5700 Fax: 07 4724 2801

Digital Data Search

There is no cultural heritage body recorded in your specific search area.

There are no cultural heritage management plans recorded in your specific search area.

There are no Designated Landscape Areas (DLA) recorded in your specific search area.

There are no Registered Cultural Heritage Study Areas in your specific search area.

Regional Coordinator:

Name	Position	Phone	Mobile	Email
Leigh Preston	Cultural Heritage Coordinator North Region	07 4799 7562	0427 142 782	Leigh.Preston@datasip.qld.gov.au

Disclaimer: Department of Aboriginal and Torres Strait Islander Partnerships is the custodian of spatial data provided by various third parties for inclusion in the Aboriginal and Torres Strait Islander cultural heritage online portal. This includes spatial data provided by the National Native Title Tribunal and Aboriginal and Torres Strait Islander parties. Department of Aboriginal and Torres Strait Islander Partnerships is not responsible for the accuracy of information provided by third parties or any errors in this search report arising from such information.

Digital Data Search

I refer to your submission in which you requested advice regarding Aboriginal or Torres Strait Islander cultural heritage recorded at your nominated location.

The Cultural Heritage Database and Register have been searched in accordance with the location description provided, and the results are set out in the above report.

Aboriginal or Torres Strait Islander cultural heritage which may exist within the search area is protected under the terms of the *Aboriginal Cultural Heritage Act 2003* and the *Torres Strait Islander Cultural Heritage Act 2003*, even if the Department of Aboriginal and Torres Strait Islander Partnerships has no records relating to it.

Under the legislation a person carrying out an activity must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal or Torres Strait Islander cultural heritage. This applies whether or not such places are recorded in an official register and whether or not they are located on private land.

Please refer to our website <https://www.datsip.qld.gov.au/people-communities/aboriginal-torres-strait-islander-cultural-heritage> for a copy of the gazetted Cultural Heritage Duty of Care Guidelines, which set out reasonable and practicable measure for meeting the cultural heritage duty of care.

In order to meet your duty of care, any land-use activity within the vicinity of recorded cultural heritage should not proceed without the agreement of the Aboriginal or Torres Strait Islander Party for the area, or by developing a Cultural Heritage Management Plan under Part 7 of the legislation.

If your proposed activity is deemed a Category 5 activity pursuant to the Duty of Care Guidelines, there is generally a high risk that it may harm cultural heritage. In these circumstances, the activity should not proceed without cultural heritage assessment.

Where a category 5 activity is proposed, it is necessary to notify the Aboriginal or Torres Strait Islander Party and seek:

- a. Advice as to whether the area is culturally significant;
- b. If it is, agreement on how best the activity may be managed to avoid or minimise harm to any cultural heritage values.

The extent to which the person has complied with Cultural Heritage Duty of Care Guidelines and the extent the person consulted Aboriginal or Torres Strait Islander Parties about carrying out the activity – and the results of the consultation – are factors a court may consider when determining if a land user has complied with the cultural heritage duty of care.



Queensland Government

Department of Aboriginal and Torres Strait Islander Partnerships

Digital Data Search

Should you have any further queries, please do not hesitate to contact the Search Approval Officer on 1300 378 401.

Kind regards

The Director

Cultural Heritage | Community Participation | Department of Aboriginal and Torres Strait Islander Partnerships

Apr 10, 2019, 2:58 PM

Digital Data Search

Digital Data (Polygon):

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Digital Data Search

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Q4. Meeting minutes from meeting with Bindal people

AGENDA & FINAL NOTES OF MEETING

Bindal People #2 and JACOBS

Haughton Pipeline, Stage 2 Feasibility Study

Friday 26 April 2019

Project Planning & Information Session

Meeting Date: Friday 26 April 2019

Time: 9.30 AM to 3.00 PM

Venue: Mercure Inn, 166 Woolcock Street, Townsville

Informal Chair: Michele Bird (North QLD Cultural Heritage)

Morning Tea and Lunch to be provided

Attendees:

Bindal Applicants

Eddie Savage

Eddie Smallwood

Della Gibson

Marlene Singleton

Christine Skeene

Kim Neal

Jasmine Stanley

Fred Stanley

Alec Illin

Jacobs Project Team

Anne Cormack

Nicole Sommerville (Apology)

Archaeologist/Technical Advisor/Informal Chair

Michele Bird (North QLD Cultural Heritage)

AGENDA ITEMS & POINTS FOR DISCUSSION

- **General Welcome by Chairperson**
- **Welcome & Opening of the Meeting by Bindal Aboriginal Party**
- **Housekeeping Items**
- **Introduction of the Parties**
- **Aims and Objectives of the Meeting**

- **Introduction & Outline of the Houghton Pipeline Project, Stage 2 (by Jacobs with Power Point Presentation). This session includes questions from the table as required and open discussion.**

- **Continued open discussion and information sharing relative to the Houghton Pipeline Project, Stage 2. This session includes feedback from the Bindal People on the indigenous cultural heritage component for Stage 2 and other matters relevant to the Aboriginal Party.**

- **Agreed Meeting Outcomes and Resolutions**
- **Next Steps and Way Forward**

Draft Notes of Meeting

Note-taker: Michele Bird

9.40 AM: Meeting opened by Michele Bird (Informal Chair).
General welcome to the meeting and acknowledgement of Alec Illin's military service in recognition of Anzac Day yesterday (25/04/2019).
Welcome to Anne Cormack from the Jacobs project team.

Kim Neal opened the meeting on behalf of the Bindal People.
Paid respect to Wulgurukaba People on whose country we meet today and the Elders of the Bindal and Wulgurukaba Peoples of the greater Townsville region.
Acknowledgement of Indigenous service people and recognition of Anzac Day.
Minute of silence for Elders past and present and for Anzac Day.

For the benefit of Jacobs (Anne Cormack) Eddie Smallwood and Eddie Savage provided a brief overview about the Bindal People, their traditional lands, the Birri Gubba nation, Birri Gubba language and an explanation of the term 'Wadda Mooli' (greeting).

Anne Cormack acknowledged and thanked the Bindal People for the introduction and information. Anne thanked the Bindal People for arranging this meeting in a short timeframe so as to provide their feedback for the Stage 2 Business Case.

Michele Bird referred to the Meeting Agenda and the overall aims of today's meeting.

Eddie Savage asked for an update on Stage 1 of the Haughton Pipeline Duplication (HPD) Project and asked for clarification about where Stage 1 is located and where Stage 2 is located.

Michele Bird explained that we would look at the maps of the possible Stage 2 alignment options during the meeting. Jacobs cannot provide you with an update on Stage 1 of the Haughton Pipeline Project, as they are not working on Stage 1. Townsville City Council (TCC) is coordinating the Stage 1 works, as per the previous meetings and negotiations between the Bindal People and TCC.

Michele Bird provided a brief overview (according to her current knowledge) of the Stage 1 works and ongoing cultural heritage monitoring program for Stage 1. She noted that work is behind schedule due to the February floods and the project is now due to be completed and delivered by March 2020 (not December 2019 as previously planned). The cultural heritage management work (monitoring of ground disturbance) along sections of the pipeline corridor is ongoing, as and when required, in the agreed monitoring areas along the pipeline route.

There was general group discussion that Stage 1 of the pipeline runs from the Haughton Pump Station to Ross Dam, whilst Stage 2 would be located from the Haughton Pump Station to the Burdekin River (at Clare Weir).

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Eddie Smallwood said that he has recently been speaking with principal contractors for Stage 1 about an employment strategy with Bindal People for the project. These discussions are ongoing and he will keep the Bindal People informed of progress.

Anne Cormack presented a Power Point Presentation (PPP) on the Houghton Pipeline Stage 2 Business Case Study (the PPP is provided as an Attachment to these Meeting Notes).

Summary Points of the PPP and the discussions:-

The Business Case is to investigate if Stage 2 of the pipeline is needed and if so, when is it needed. Jacobs is also looking into the preferred alignment for Stage 2 of the pipeline. The overall aim for Stage 2 is to achieve water security for Townsville in the long term.

Jacobs is undertaking the current feasibility study to answer the aforementioned questions. The Federal Government is commissioning the current investigations. Based on the outcomes of this study, the Federal Government will then make the decision if they want to proceed with Stage 2. Jacobs has been given a very short timeframe to undertake the feasibility study – March to May only.

Anne Cormack acknowledged the Bindal People as key stakeholders for Stage 2 of the pipeline and said that this meeting was requested in order to gauge your initial feedback on Stage 2 and to incorporate this feedback into the Business Case for the Federal Government.

Fred Stanley asked if there was enough time to do the Business Case investigations given the short timeframe allowed by the Government?

Anne Cormack replied that much of the work being undertaken for the feasibility study was desktop investigations. The desktop work can provide good guidance and information on what is needed for Stage 2, but we are also working very hard and long hours to achieve the deadline on the Business Case reporting.

The current tasks for Jacobs includes (refer PPP for further information):-

- Review of existing work;
- Engagement with stakeholders;
- Consideration of potential pipeline route options;
- Preliminary economic, social and environmental assessments;
- Considering if there any benefits to construct Stage 2 concurrently with Stage 1, OR should Stage 2 be constructed at a later date when needed;
- Consideration of a suite of non-infrastructure options if Stage 2 does not proceed (eg. TCC water wise program, use of recycled water, etc).

Key stakeholders list (as per PPP).

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Map of project area and pipeline alignment options for Stage 2 (as per PPP and see also the map at Attachment 1 below).

Potential corridor options for the Stage 2 pipeline alignment:-

1. Up against the Haughton main channel in the Sunwater lease area;
2. Adjacent to, but outside the Sunwater lease area; or
3. Along existing road reserve and power line easements, etc.

Jacobs is currently doing an initial assessment of these potential corridor options and the implications, advantages and disadvantages of each option.

At this time, the preferred alignment is to locate the Stage 2 pipeline just outside the Sunwater Haughton main channel, probably on its western side.

It was noted that the Haughton main channel has some leakage issues and this does present some challenging issues with regard to installing a new pipeline nearby. There are also various safety issues to consider with constructing a new steel line near an existing pipeline easement. At the present time, the engineering preference is to construct a steel pipeline and the rationale is based mainly on installation and maintenance issues.

Christine Skeene asked if the leakage problems along the existing Sunwater main channel would cause issues and problems for construction of Stage 2?

Anne Cormack noted that some funding is included in the budgeting for Stage 1 of the project to fix some of the leakage problems. Stage 1 also includes funding for three new siphons to improve pumping and overall water management.

Anne Cormack noted that the overall aim of all pipeline options being considered is to deliver 360 mega litres of water per day to Townsville.

Eddie Smallwood asked if Jacobs have looked at the tenure of the land along the preferred pipeline alignment. He said that depending on the land tenure there might be Native Title implications for the project for any parcels of land where Native Title has not been extinguished.

Anne Cormack said that much of the land is leasehold land for farming and agriculture. Farmers are also key stakeholders as they can potentially lose important farming lands, or have parcels of land divided by the pipeline.

Eddie Smallwood noted that there may be Native Title implications for parcels of leasehold land and that the cultural heritage implications for the whole Stage 2 pipeline corridor also needs to be addressed via appropriate consultation and surveys in conjunction with the Bindal People.

Group discussion then took place on the major issues and matters to be addressed for Stage 2 from the Bindal People's perspective (cultural heritage and native

Final Notes of Meeting (Version dated 16 May 2019)

title). Michele Bird suggested the major points of the discussions be documented on the white board as the discussions proceed (as per Attachment 2 below).

Anne Cormack reiterated the point that the current study is a feasibility study only. The aim of this study is to make recommendations to the Federal Government, based on the outcomes of our investigations. If the project does proceed to Stage 2 then a lot of additional investigations would need to be undertaken this year (in 2019) to enable the Stage 2 works to progress to construction in the longer term.

Eddie Smallwood asked for clarification of the location of the current preferred corridor. How many metres is the preferred corridor from the Sunwater main channel? Will this be an entirely new corridor?

Anne Cormack said that the current preference of the engineers is to construct the new pipeline outside the Sunwater corridor. The Stage 2 pipeline would likely be located adjacent to the Sunwater corridor, but outside the Sunwater corridor. It would be a new corridor. The likely corridor width taking into account the room needed for the pipeline and access track would be 40m to 50m in width.

Eddie Smallwood asked if there would be geotechnical works undertaken for the project corridor.

Anne Cormack replied that there would be a detailed program of geotechnical works if the project proceeds to Stage 2. Anne noted that some limited geotechnical works is being done for the current feasibility study. We do need to undertake some geotechnical works in the form of a few test pits to determine the geology and soils, etc. These factors can have major implications for the design and costs of a project. The current geotechnical works is being confined to existing disturbed areas such as existing tracks and areas of previous ground disturbance. We are confining the current geotechnical works to areas that are classified as Category 2 or Category 3 areas under the Duty of Care Guidelines in the Aboriginal Cultural Heritage Act 2003 (ACHA).

Anne Cormack said that if the project does go ahead to Stage 2 there will be much more geotechnical works required and we do recognise that we would need to have Bindal monitors on-site to oversee any new ground disturbance. We acknowledge that the appropriate cultural heritage management works would need to be carried out for any future geotechnical works program. It may or may not be Jacobs who undertake future geotechnical works. It will depend entirely on who is engaged to take the project works forward for Stage 2, if it proceeds.

Eddie Smallwood said that the Bindal People would want to negotiate a Cultural Heritage Management Agreement (CHMA) at the outset of Stage 2 to address cultural heritage matters. He also said that the native title implications would need to be assessed at the outset of Stage 2. Depending on the land tenure, if native title is not extinguished in some areas of the corridor, an Indigenous Land Use Agreement (ILUA) under the Native Title Act might be needed. We would need to consult with our legal representative on this matter for Stage 2.

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Anne Cormack asked about the process for establishing a new CHMA with the Bindal People, given that you already have a CHMA for Stage 1 of the project.

Eddie Smallwood said that a new agreement for Stage 2 would need to be negotiated. This is a separate project with a whole new corridor in a new location.

Michele Bird (as Technical Advisor) noted that the process for developing and negotiating a Stage 2 CHMA would also depend on the future proponent for Stage 2. The proponent for Stage 1 is TCC and the CHMA for Stage 1 was agreed and executed between the Bindal People and TCC. The Stage 2 proponent might be TCC, or it might possibly be another entity. This is not known at this time.

Eddie Smallwood asked if the likely proponent for Stage 2 would be Burdekin Shire Council (BSC), given that the project is located in the BSC local government area.

Anne Cormack noted that the future proponent is not known at this time, but that TCC are very interested in the project. This is because the project is all about supplying water security to Townsville (not the Burdekin Shire). It is the local government entity of TCC who want the water and so they have a vested interest in being the proponent for Stage 2.

10.15 AM: Morning Tea Break.

10.45 AM: Meeting Resumes.

Eddie Smallwood asked, what role would Jacobs play in Stage 2 if it goes ahead?

Anne Cormack replied that Jacobs might have no role at all for Stage 2. There would be a large amount of consultancy work to do after the feasibility study if the project was to progress to Stage 2. The alignment and design of the pipeline would need to be finalised, there are other design elements to complete, all of the statutory requirements for environmental and cultural heritage management, etc. There would likely be a range of specialist consultants working on the various aspects and Jacobs may or may not be involved going forward. Currently, Jacobs' role is to deliver the feasibility study to Federal Government and then the Federal Government will determine if and how they proceed to the next stage. It is likely that the Feds would go back out to the market to tender for the various aspects of the project work. There may or may not be opportunities for Jacobs to tender for some aspects of the future project work.

Michele Bird noted that Jacobs might be involved as future consultants for the project, but that it is important to note that they will not be the project proponent for Stage 2. This is important for the Bindal People to note because going forward you will be developing a CHMA with the project proponent, not the consultants. TCC was the project proponent for Stage 1 and your CHMA is therefore with TCC as the developer. The critical point to note for the CHMA development and negotiations is that it will be with the development proponent.

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Eddie Smallwood noted that as for Stage 1 it would be important for the Bindal People to engage with the proponent and the principal contractors for Stage 2 relative to cultural heritage management, native title and employment opportunities. We need to undertake a similar process as we did for Stage 1 as this approach worked well for all parties.

There was group discussion and general agreement that the logical proponent for Stage 2 (should it proceed) would be TCC.

Eddie Savage asked about employment opportunities for Stage 2 and capacity building for the Bindal People.

Eddie Smallwood also noted that Bindal People are interested in pursuing tendering opportunities and contract work on the Stage 2 project.

[Michele Bird continued to document dot points of the Bindal feedback on the white board as per Attachment 2].

Eddie Smallwood provided a brief background to Anne Cormack on the role of Gudjuda Reference Group as the Bindal People's third party service provider for the time being, until native title is determined and a new Prescribed Body Corporate (PBC) is set up by the Bindal People.

Anne Cormack asked for feedback on the possible cultural heritage issues along the Stage 2 preferred corridor.

There was group discussion with various Bindal People noting the overall high cultural heritage potential and sensitivity of watercourses along the Stage 2 project corridor. There are major watercourses involved such as the Haughton River and Burdekin River and many other smaller streams. Watercourses have high Aboriginal cultural significance and residual cultural heritage potential.

Christine Skeene referred to a highly significant cultural site located at a quarry operation in the Lower Burdekin near Clare. This is an important cultural site and it is situated very close to the Burdekin River. The preferred pipeline alignment is likely to have cultural sites and sensitive locations due to its proximity to the Burdekin River.

Michele Bird said that there was a desktop cultural heritage study prepared for Stage 1 of the Haughton Pipeline and this desktop work included some information on the likely cultural heritage potential of the Stage 1 corridor and also the potential Aboriginal party concerns and issues with the Stage 1 alignment.

Michele Bird asked for permission from the Bindal People to send some of the broad-based and general cultural heritage information from the Stage 1 desktop report to Jacobs for their background information and to assist in the process of preliminary risk assessment for the Stage 2 preferred alignment. The Bindal People granted permission for the information to be passed on to Jacobs. Michele

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reiterated that the Stage 1 desktop report included some general archaeological predictive modelling for Stage 1 and an appraisal of issues of concern to the Bindal People.

Eddie Smallwood said that one of the broader aspirations of the Bindal People is to get assistance with scholarships and educational opportunities for Bindal People. We are interested in ventures for capacity building, including STEM (science and technology) opportunities.

Eddie Smallwood suggested that appropriate signage could be erected at the pump stations and/or along various vantage points along the Stage 2 preferred alignment. The signage could acknowledge the Bindal People, their traditional lands, the cooperation of the Bindal People in working together with the proponent on the Stage 2 project, welcome to country messages, etc.

Kim Neal said that the contractors on the Stage 1 project (Mendi) had erected a sign on-site to acknowledge the Bindal Cultural Monitors. It is good to go to work and be on-site where there is respect for the Traditional Owners and the work we do for the project.

Michele Bird asked if there would be major benefits to move forward with Stage 2 now, and to work concurrently with the Stage 1 construction works.

Anne Cormack reiterated the point that the pipeline options need to deliver 360 mega litres of water per day to Townsville. The major question is whether or not Townsville needs the Stage 2 pipeline now.

Anne noted that the TCC Water Task Force has been investigating whether or not to proceed with Stage 2 now. The Taskforce says that if you work on Stage 1 and Stage 2 concurrently you could save a lot of money. They predict there would be great cost advantages to proceed with Stage 2 now and potential savings of up to \$50 million. The question is, would there be savings if the Stage 2 project proceeded in 10 years instead of now?

Fred Stanley said it would be better to proceed with Stage 2 now so that water security is achieved in the short term.

Eddie Smallwood asked if the outcome of the upcoming election would have any bearing on Stage 2 going ahead now?

Anne Cormack noted that the feasibility study will be delivered to the Federal Government and that it is her understanding that both sides of government have committed funding to Stage 2 and securing water for Townsville.

Eddie Smallwood said that for the Stage 1 project works there have been some issues with landholders and access to their properties, etc.

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Anne Cormack said that landholders are very important stakeholders and for Stage 2 there will be consultation and land access agreements negotiated with all affected landholders.

Anne Cormack advised that for Stage 1 they were looking at establishing a solar farm for the energy source at the pump station. Solar power is also proposed for Stage 2 and the land for that component would need to be considered and assessed for cultural heritage and native title. Anne asked if the solar aspect of the project would require a separate CHMA with the Bindal People?

Michele Bird said that it would largely depend on the eventual proponents for the different aspects of the project. If the solar farm had a different development proponent than the pipeline corridor then you would probably need to have separate CHMA's. But, if the solar project was within the area of the pipeline corridor or on adjacent land parcels and had the same proponent as the pipeline corridor, then one single CHMA could incorporate both aspects. This would need to be determined at a later time when the various proponents for the various aspects of the project are determined.

Michele Bird asked for permission from the Bindal Applicants for today's meeting notes to be forwarded to Jacobs for inclusion in their feasibility project reporting. Michele also suggested that some photographs of the cultural meeting be included in the meeting notes.

The Bindal People agreed to both photos and these meeting notes (in final format) being passed on to Jacobs.

Michele Bird advised that the notes of the meeting and selected photos would be forwarded to the parties for review and comment first, before the final set of meeting notes would be forwarded to Jacobs for inclusion in the project documentation.

12.00 Midday: Lunch-Break.

12.30 PM: Meeting Resumes.

The afternoon session included some further general discussions on some of the broader project aspirations and areas of interest for the Bindal People as part of the Stage 2 project.

Eddie Smallwood referred to the 'closing the gap' policy of government in relation to indigenous employment. This is a Federal Government program whereby the objective is to achieve at least 3% of indigenous employment on major projects. The Bindal People have vested interests into tapping into these Federal Government initiatives for major projects in their traditional lands.

Bindal People would like to have some feedback on the land tenure of the preferred pipeline corridor, so that the Bindal People's legal personnel can investigate any potential native title implications for the project. If there are

Final Notes of Meeting (Version dated 16 May 2019)

native title implications, the Bindal People could look at land access arrangements and potential land swaps, etc as part of the native title negotiations for Stage 2.

The Bindal People would be interested in discussing and establishing a future Bindal Trust with the development proponent for Stage 2. This is about capacity building for the Bindal People and achieving long-term outcomes that will out-live the Stage 2 pipeline development. It is about achieving long-term outcomes and opportunities for Bindal People from major projects such as the Stage 2 pipeline.

Sponsorship for Bindal People in various ventures – education, sport, artwork, etc.

The group reviewed the white board notes (as per Attachment 2) and agreed that these notes reflected an accurate summary of the main points of the Bindal People's feedback for Stage 2.

1.00 PM: Meeting closed with photo opportunities (see Attachment 3 below).

On behalf of the Bindal People, Alec Illin thanked Anne Cormack and Jacobs for a productive meeting, for the information as provided relative to Stage 2, and he requested that Anne take the Bindal feedback to the Federal Government as part of the Business Case reporting.

ATTACHMENT 1: PROJECT INFORMATION

STAGE 2 HAUGHTON PIPELINE PROJECT BUSINESS CASE

The Stage 2 Haughton Pipeline Project is a proposed pipeline connecting from the Burdekin River at the Clare Weir to the Haughton Pump Station, and to the Stage 1 Haughton Pipeline Duplication Project that is currently under construction.

A business case is being prepared, which will provide a detailed assessment of Stage 2. This will consider possible alternative options and their potential risks and benefits.

The business case is being prepared in accordance with Infrastructure Australia's Assessment Framework.

What options will the business case consider?

The business case will consider possible options available to address the problems and opportunities identified, including:

- Delivering a Stage 2 pipeline concurrently with the Stage 1 Haughton Pipeline Duplication project
- Delivering a Stage 2 pipeline as a standalone project in the future
- Non-infrastructure options, for example demand management and system optimisation.

What will the business case cover?

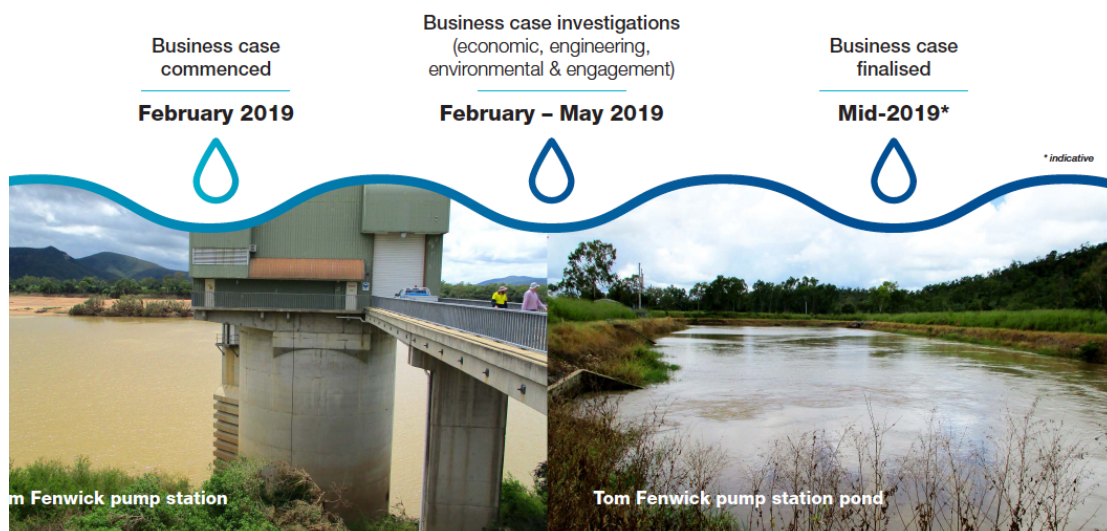
The business case will provide a detailed assessment of the project and possible options, including:

- Social, environmental and economic costs and benefits of each option
- Economic analysis, which considers both monetised and non-monetised benefits and costs
- Legal and regulatory considerations
- Financial and commercial analysis
- Assessment of potential risks associated with the project options.

Provide your feedback

You can provide written feedback on the business case to:

Stage2HaughtonPipelineBC@jacobs.com



STAGE 2 HAUGHTON PIPELINE PROJECT BUSINESS CASE



LEGEND

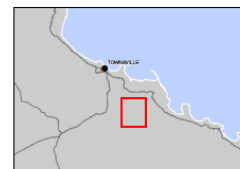
- Clare
- Clare Weir
- Watercourse
- Haughton Main Channel
- Railway
- Secondary Roads
- Local Connector Roads
- Street/Local

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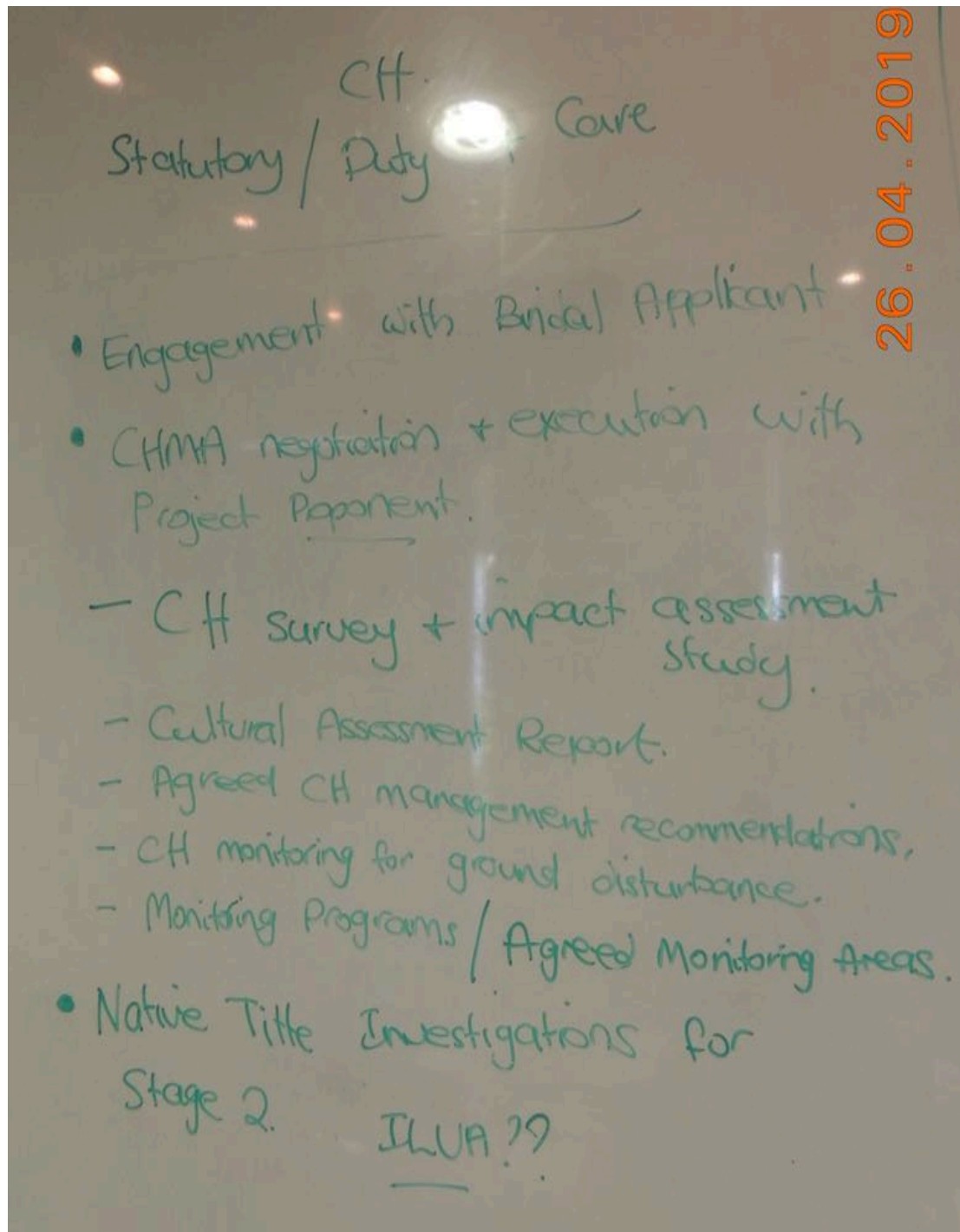
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Source: DSRM: Cadastre, Roads, (2018); ESRI: Imagery, (2018)

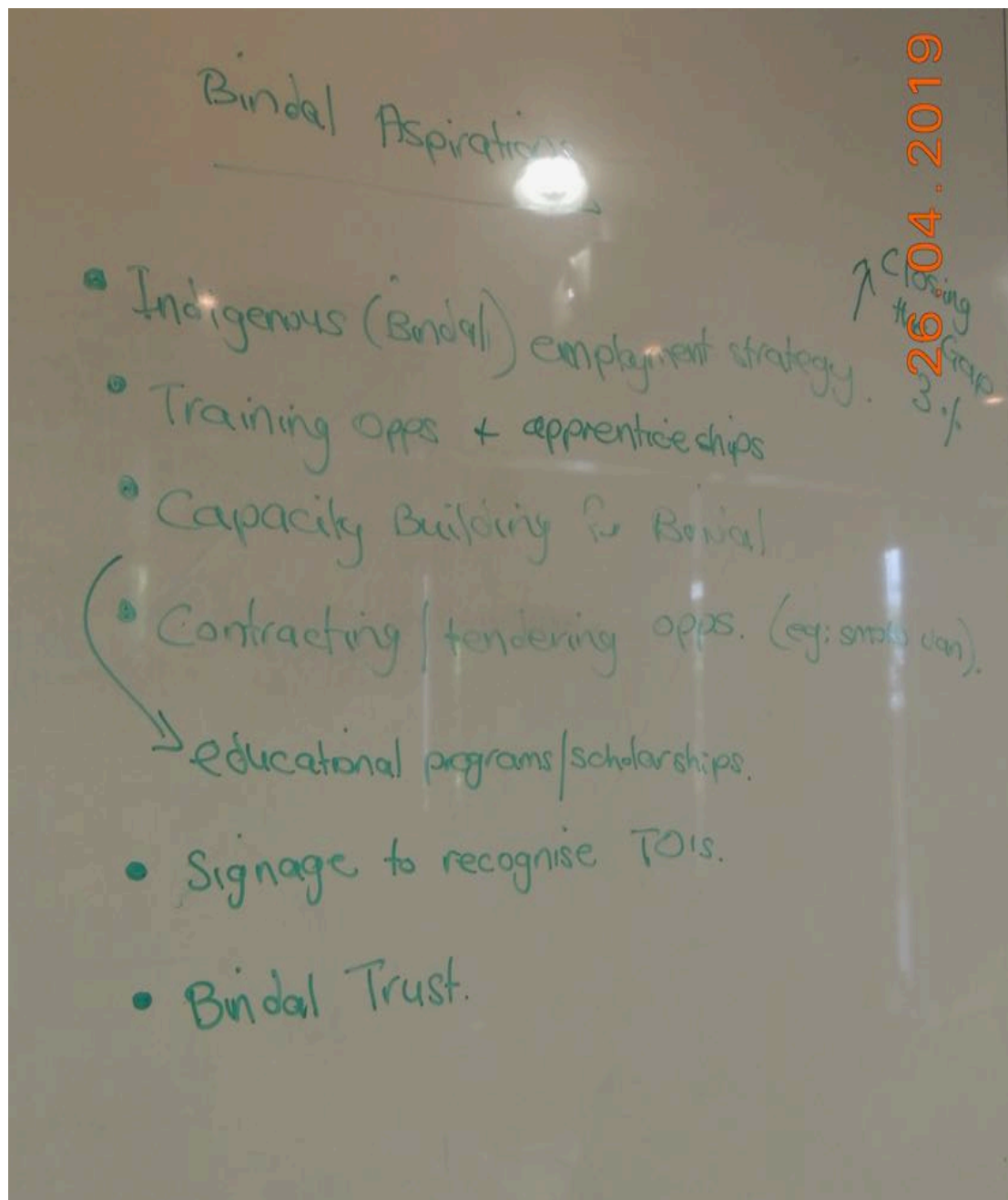
ATTACHMENT 2: WHITE BOARD NOTES



White Board Notes 1 (Typed Version)

Statutory Requirements for Stage 2 – Cultural Heritage and Native Title

- Cultural heritage duty of care requirements under the Aboriginal Cultural Heritage Act 2003(ACHA).
- Engagement with the Bindal People #2 Native Title Applicant as the relevant Aboriginal Party under the ACHA.
- Negotiation and agreement of a Cultural Heritage Management Agreement (CHMA) between the Bindal People #2 and the development proponent.
- Cultural heritage survey and impact assessment of the preferred pipeline corridor and other impact (development areas) in conjunction with Bindal People #2.
- Cultural Heritage Impact Assessment Report.
- Agreed cultural heritage management recommendations.
- Agreed monitoring areas for ground disturbance works and cultural heritage monitoring programs.
- Land tenure and Native Title investigations for the preferred pipeline corridor for Stage 2. Native Title implications for the project, if any and is an ILUA required under the Native title Act.



White Board Notes 2 (Typed Version)

Bindal Aspirations and Interests for Stage 2

- Indigenous (Bindal) employment strategy with the development proponent and/or principal contractors. Closing the Gap initiative of 3% indigenous employment for major projects (Federal Government initiative).
- Training opportunities and apprenticeships for Bindal People.
- Capacity building initiatives and opportunities.
- Contracting and tendering opportunities (eg: smoko van).
- Educational programs, opportunities and scholarships.
- Signage on country to acknowledge Bindal People and their traditional lands.
- Establishment of a Bindal Trust (to assist with capacity building).

ATTACHMENT 3: SELECTED PHOTOGRAPHS

