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PREPARED BY:

Whelans Insites Pty Ltd
ACN: 088 148 743
insites.com.au

NOTES:

1. All features are approximate only and subject to detailed survey



PLANT SCHEDULE

[illegible]

NOTES

- Refer Architects for further details on building.
- Refer Engineers for further details on levels and sediment control.



CLOUSTON associates

Client: JACFIN

Scale: 1:750 @ A1

ropes creek • building 2

LANDSCAPE CONCEPT

NS 1110	07/10 issue: C
---------	----------------

[illegible]

SCALE :	Not to scale		
CO-ORDS :	MGA		
DATUM :	N/A		
DATE OF PLAN :	29-07-2010		
CHECKED BY/DATE :	SAS/29-07-2010		
APPROVED BY/DATE :	F/29-07-2010		
JOB REF:	G729		
GIS REF:	G729-G-005B.mxd		

Figure 6

NPWS vegetation mapping of the subject site and surrounds at Ropes Creek



PREPARED FOR:

Jacfin Pty Ltd

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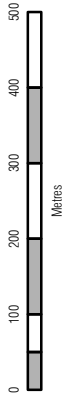
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NOTES:

1. Aerial Image © Neamap 15/07/2010
2. Subject Site boundary based on DCD8 2010
3. Vegetation mapping © NPWS 2002 (Cumberland Plain Vegetation mapping project)
4. All features are approximate only and subject to detailed survey

LEGEND

 Subject Site

 Greater than 10% cover

 Alluvial Woodland

 Shale Hills Woodland

 Shale Plains Woodland

 Less than 10% cover

 Alluvial Woodland

 Shale Hills Woodland

 Shale Plains Woodland

 Less than 10% cover and urbanised

 Shale Plains Woodland

No.	Date	Revision Details	INI

SCALE:	1:10,000	@ A3
CO-ORDS:	MGA	
DATUM:	N/A	
DATE OF PLAN:	29-07-2010	
CHECKED BY/DATE:	SAS/29-07-2010	
APPROVED BY/DATE:	FI/29-07-2010	
JOB REF:	G729	
GIS REF:	G729-G-003.mxd	

Figure 7

Vegetation mapping by InSites on the subject site at Ropes Creek

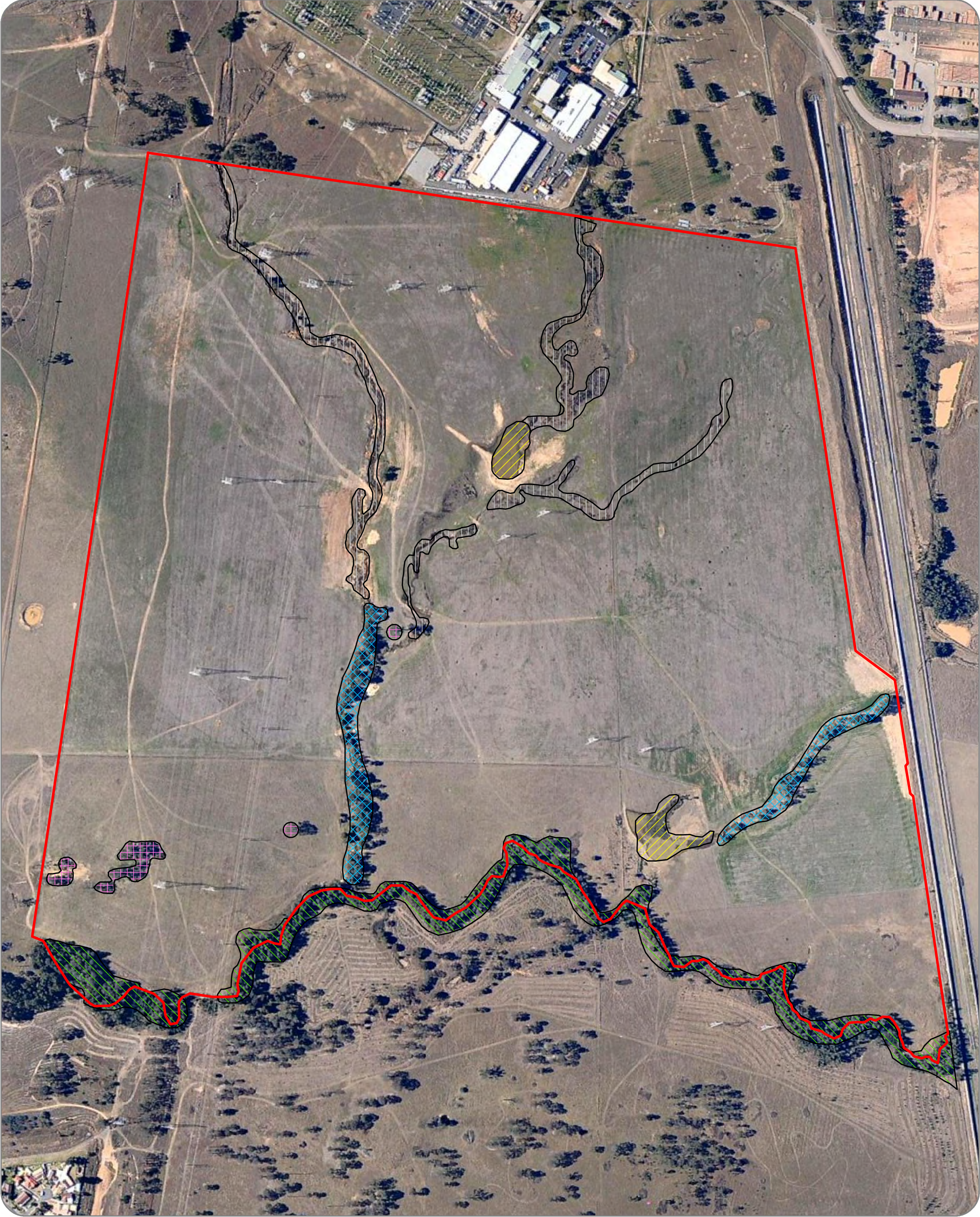
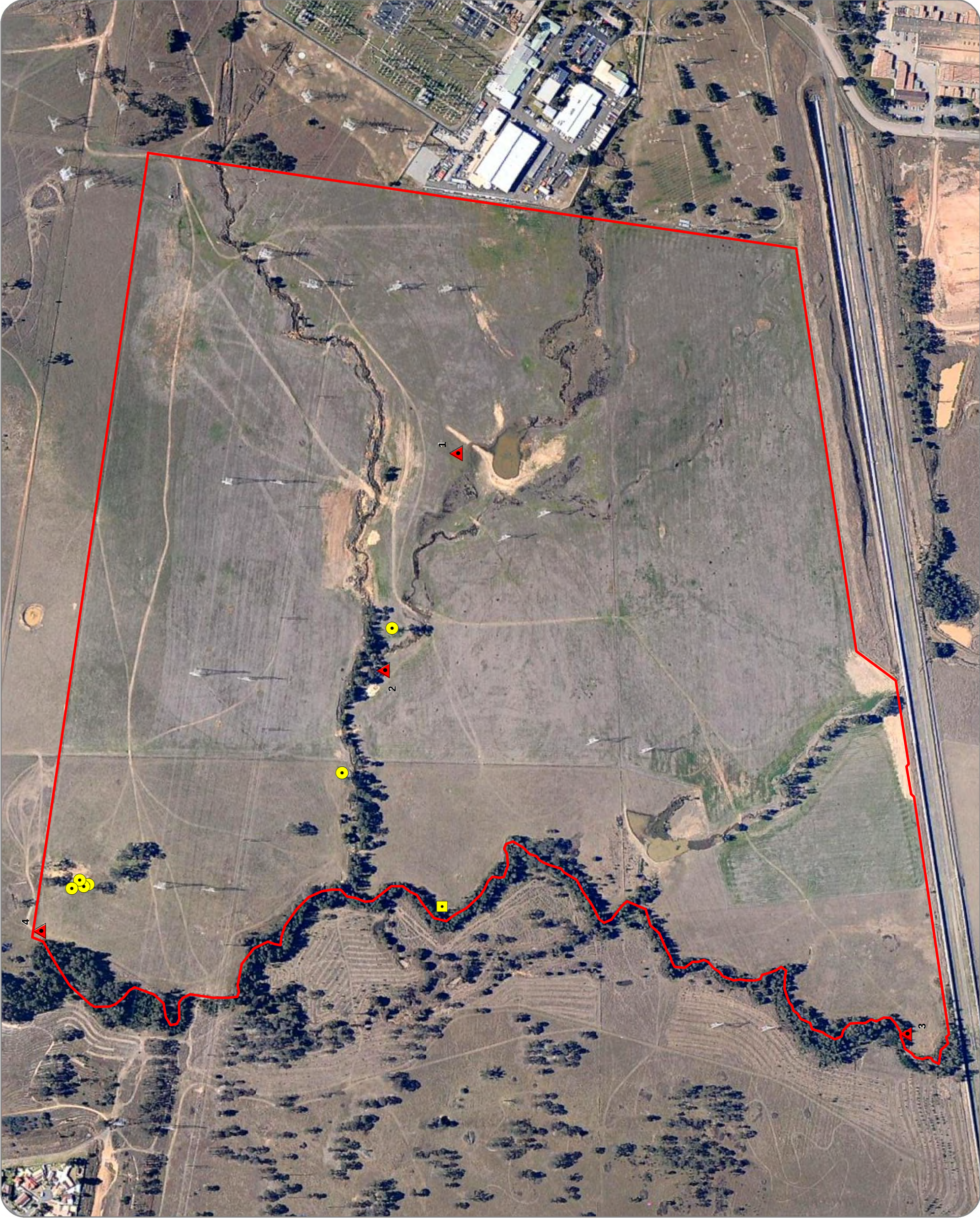


Figure 8 Hollow-bearing trees and photo-points on the subject site at Ropes Creek



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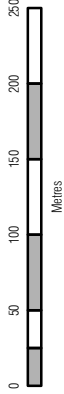
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NOTES:

1. Aerial Image © Neamap 15/07/2010
2. Subject Site boundary based on DCD8 2010
3. Trees are surveyed by insites 23rd July 2010
4. All features are approximate only and subject to detailed survey

LEGEND

- Subject Site
- Hollow-bearing Trees
- Forest Red Gum
- Stag
- Photo points

No.	Date	Revision Details	INI

SCALE :	1:5,000	@ A3
CO-ORDS :	MGA	
DATUM :	N/A	
DATE OF PLAN :	29-07-2010	
CHECKED BY/DATE :	SAS/29-07-2010	
APPROVED BY/DATE :	FI/29-07-2010	
JOB REF:	G729	
GIS REF:	G729-G-005.mxd	

Lot 5 in DP 262211 Ropes Creek
Horsley Park Employment Precinct

Proposed Industrial Development
Major Project MP 10_xxxx

Ecological Issues & Assessment Report

Appendix A
Photographs of the subject site at Ropes Creek

6th August 2010



Whelans InSites Pty Ltd

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email: dfanning@insites.com.au

APPENDIX A Photographs of the Subject Site at Ropes Creek.



Photo 1 Looking north from *Photo Point 1*, looking over the pasture and oats which characterise most of the site. The *Stage 1 Project Application* site in the northeastern corner of the site is located just beyond the electricity transmission lines.



Photo 2 Looking east from *Photo Point 1* towards the TransGrid substation. The southeastern part of the *Stage 1 Project Application* site is located in the right of the photo.



Photo 3 Looking south from *Photo Point 1* showing the eastern farm dam.



Photo 4 Looking west from *Photo Point 1* across a highly degraded minor drainage line, and over pasture and sown oats towards Ropes Creek (the trees in the background).



Photo 5 Facing north at *Photo Point 2* looking across Degraded Riparian Woodland in the northern tributary to Ropes Creek. Note the proximity of pasture/oats to the drainage line and the linear nature of the woodland.



Photo 6 Looking east from *Photo Point 2*, with a hollow-bearing Forest Red Gum in the foreground and the TransGrid substation in the background. The southeastern portion of the *Stage 1 Project Application* is located in the right of the photo.



Photo 7 Looking south from *Photo Point 2* across the pasture and sown oats in the southern half of the site.



Photo 8 Looking east from *Photo Point 2* towards Ropes Creek.



Photo 9 Looking northeast from *Photo Point 3* along the edge between the grazed pasture and the Disturbed Riparian Woodland along Ropes Creek (to the left). The narrow band of discontinuous Swamp Oaks in the centre of the photo is located along the southwestern tributary to Ropes Creek.



Photo 10 Looking east from *Photo Point 3* with grazed introduced pasture in the southern part of the site, and the Sydney Water Pipeline to the south of the site.



Photo 11 Looking east from *Photo Point 4* across the northern part of the Ropes Creek site. Several of the scattered Forest Red Gums in pasture are present in the centre of the photo.



Photo 12 Looking south from *Photo Point 4* along the edge between grazed pasture and the Disturbed Riparian Woodland along Ropes Creek.



Photo 13 The highly degraded vegetation in the upper part of the northern tributary, downstream of the electricity substation.



Photo 14 Very highly degraded vegetation in the upper part of the small tributary to the northern tributary, in the area of the proposed southeastern building for Stage 1.



Lot 5 in DP 262211 Ropes Creek
Horsley Park Employment Precinct

Proposed Industrial Development
Major Project MP 10_xxxx

Ecological Issues & Assessment Report

Appendix B
DECCW Wildlife Atlas records for the locality

6th August 2010



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[DECCW home](#) | [help](#) | [about the atlas](#)

Search Results

Your selection: Flora, threatened species, Selected Area - 150.71195,-33.90618,150.92640,-33.72636
returned a total of 532 records of 17 species.

Report generated on 29/07/2010 - 12:13 (Data valid to 25/04/2010)

[view map](#)
[search again](#)
[clear selection](#)
[search again](#)
[view selection](#)

Choose up to 3 species to map.

* Exotic (non-native) species

Plants	Map	Scientific Name	Common Name	Legal Status	Count	Info
Apocynaceae						
☐		Cynanchum elegans	White-flowered Wax Plant	E1	1	
☐		Marsdenia viridiflora subsp. viridiflora	Marsdenia viridiflora R. Br. subsp. viridiflora population in the Bankstown, Blacktown, Camden, Campbelltown, Fairfield, Holroyd, Liverpool and Penrith local government areas	E2	25	
Fabaceae (Faboideae)						
☐		Dillwynia tenuifolia		V	53	
☐		Dillwynia tenuifolia	Dillwynia tenuifolia, Kemps Creek	E2	20	
☐		Pultenaea parviflora		E1	113	
☐		Pultenaea pedunculata	Matted Bush-pea	E1	2	
Fabaceae (Mimosoideae)						
☐		Acacia pubescens	Downy Wattle	V	42	
Lobeliaceae						
☐		Hypsela sessiliflora		E1	7	
Marsileaceae						
☐		Pilularia novae-hollandiae	Austral Pillwort	E1	1	
Myrtaceae						
☐		Callistemon linearifolius	Netted Bottle Brush	V	1	
☐		Micromyrtus minutiflora		E1	5	
Orchidaceae						
☐		Pterostylis saxicola	Sydney Plains Greenhood	E1	1	
Proteaceae						
☐		Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	V	180	
☐		Grevillea parviflora subsp. parviflora	Small-flower Grevillea	V	10	
☐		Persoonia nutans	Nodding Geebung	E1	24	
Thymelaeaceae						
☐		Pimelea curviflora var. curviflora		V	1	
☐		Pimelea spicata	Spiked Rice-flower	E1	46	

* Exotic (non-native) species

Choose up to 3 species to map.

DISCLAIMER: The Atlas of New South Wales Wildlife contains data from a number of sources including government agencies.


[DECCW home](#) | [help](#) | [about the atlas](#)

Search Results

Your selection: Fauna, threatened species, Selected Area - 150.71195,-33.90618,150.92840,-33.72636
returned a total of 493 records of 26 species.

Report generated on 29/07/2010 - 12:12 (Data valid to 25/04/2010)

[view map](#)
[search again](#)
[clear selection](#)
[search again](#)
[clear selection](#)

Choose up to 3 species to map.

* Exotic (non-native) species

Amphibia	Map	Scientific Name	Common Name	Legal Status	Count	Info
Hylidae	☐	Litoria aurea	Green and Golden Bell Frog	E1	21	
Aves	Map	Scientific Name	Common Name	Legal Status	Count	Info
Acanthizidae	☐	Pyrrholaemus sagittatus	Speckled Warbler	V	9	
Accipitridae	☐	Hieraaetus morphnoides	Little Eagle	V	11	
	☐	Lophoictinia isura	Square-tailed Kite	V	1	
Burhinidae	☐	Burhinus grallarius	Bush Stone-curlew	E1	1	
Cacatuidae	☐	Callocephalon fimbriatum	Gang-gang Cockatoo	V	1	
	☐	Calyptorhynchus lathami	Glossy Black-Cockatoo	V	1	
Ciconiidae	☐	Ephippiorhynchus asiaticus	Black-necked Stork	E1	1	
Estrildidae	☐	Stagonopleura guttata	Diamond Firetail	V	1	
Meliphagidae	☐	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	V	1	
	☐	Xanthomyza phrygia	Regent Honeyeater	E1	9	
Neosittidae	☐	Daphoenositta chrysoptera	Varied Sittella	V	24	
Petroicidae	☐	Petroica boodang	Scarlet Robin	V	3	
	☐	Petroica phoenicea	Flame Robin	V	2	
Psittacidae	☐	Glossopsitta pusilla	Little Lorikeet	V	1	
	☐	Lathamus discolor	Swift Parrot	E1	13	
Tytonidae	☐	Tyto novaehollandiae	Masked Owl	V	1	
Gastropoda	Map	Scientific Name	Common Name	Legal Status	Count	Info
Camaenidae	☐	Meridolum corneovirens	Cumberland Plain Land Snail	E1	223	

Mammalia	Map	Scientific Name	Common Name	Legal Status	Count	Info
Dasyuridae						
	☐	Dasyurus maculatus	Spotted-tailed Quoll	V	7	
Molossidae						
	☐	Mormopterus norfolkensis	Eastern Freetail-bat	V	16	
Phascolarctidae						
	☐	Phascolarctos cinereus	Koala	V	2	
Pteropodidae						
	☐	Pteropus poliocephalus	Grey-headed Flying-fox	V	55	
Vespertilionidae						
	☐	Falsistrellus tasmaniensis	Eastern False Pipistrelle	V	7	
	☐	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	V	57	
	☐	Myotis macropus	Southern Myotis	V	9	
	☐	Scoteanax rueppellii	Greater Broad-nosed Bat	V	6	

* Exotic (non-native) species

Choose up to 3 species to map.

DISCLAIMER: The Atlas of New South Wales Wildlife contains data from a number of sources including government agencies, non-government organisations and private individuals. These data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Find out [more](#) about the Atlas.

[\[Atlas of NSW Wildlife Home \]](#)

[\[DECCW Home \]](#) [Feedback](#) [Copyright](#) [Disclaimer](#) [Privacy](#)

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OUR ENVIRONMENT
it's a living thing



Lot 5 in DP 262211 Ropes Creek
Horsley Park Employment Precinct

Proposed Industrial Development
Major Project MP 10_xxxx

Ecological Issues & Assessment Report

Appendix C
EPBC Act records for the locality

6th August 2010



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Protected Matters Search Tool

You are here: [Environment Home](#) > [EPBC Act](#) > [Search](#)

29 July 2010 12:24

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.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>

Search Type: Point
Buffer: 10 km
Coordinates: -33.8162713,150.8201716



Report Contents: [Summary](#)
[Details](#)
 • [Matters of NES](#)
 • [Other matters protected by the EPBC Act](#)
 • [Extra Information](#)
[Caveat](#)
[Acknowledgments](#)



This map may contain data which are
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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 - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Significance: (Ramsar Sites)	1
Commonwealth Marine Areas:	None
Threatened Ecological Communities:	1

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc_report.pl?searchtype=point;latdeg=:latmin=:la... 29/07/2010

Threatened Species:	24
Migratory Species:	14

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 and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

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. Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov.au/epbc/permits/index.html>.

Commonwealth Lands:	5
Commonwealth Heritage Places:	1
Places on the RNE:	10
Listed Marine Species:	12
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	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
Other Commonwealth Reserves:	None
Regional Forest Agreements:	None

Details

Matters of National Environmental Significance

Wetlands of International Significance [[Dataset Information](#)]
(Ramsar Sites)

[TOWRA POINT NATURE RESERVE](#) Within same catchment as Ramsar site

Threatened Ecological Communities [Dataset Information]	Status	Type of Presence
---	--------	------------------

Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest	Critically Endangered	Community likely to occur within area
---	-----------------------	---------------------------------------

Threatened Species [Dataset Information]	Status	Type of Presence
--	--------	------------------

Birds

Anthochaera phrygia Regent Honeyeater	Endangered	Species or species habitat likely to occur within area
--	------------	--

<i>Lathamus discolor</i> Swift Parrot	Endangered	Species or species habitat may occur within area
<i>Rostratula australis</i> Australian Painted Snipe	Vulnerable	Species or species habitat may occur within area
Frogs		
<i>Heleioporus australiacus</i> Giant Burrowing Frog	Vulnerable	Species or species habitat likely to occur within area
<i>Litoria aurea</i> Green and Golden Bell Frog	Vulnerable	Species or species habitat likely to occur within area
<i>Litoria raniformis</i> Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog	Vulnerable	Species or species habitat may occur within area
<i>Mixophyes iteratus</i> Southern Barred Frog, Giant Barred Frog	Endangered	Species or species habitat likely to occur within area
Mammals		
<i>Chalinolobus dwyeri</i> Large-eared Pied Bat, Large Pied Bat	Vulnerable	Species or species habitat may occur within area
<i>Dasvurus maculatus maculatus (SE mainland population)</i> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population)	Endangered	Species or species habitat may occur within area
<i>Petrogale penicillata</i> Brush-tailed Rock-wallaby	Vulnerable	Species or species habitat may occur within area
<i>Potorous tridactylus tridactylus</i> Long-nosed Potoroo (SE mainland)	Vulnerable	Species or species habitat may occur within area
<i>Pteropus poliocephalus</i> Grey-headed Flying-fox	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Ray-finned fishes		
<i>Macquaria australasica</i> Macquarie Perch	Endangered	Species or species habitat may occur within area
<i>Prototroctes maraena</i> Australian Grayling	Vulnerable	Species or species habitat may occur within area
Reptiles		
<i>Hoplocephalus bungaroides</i> Broad-headed Snake	Vulnerable	Species or species habitat likely to occur within area
Plants		
<i>Acacia pubescens</i> Downy Wattle, Hairy Stemmed Wattle	Vulnerable	Species or species habitat likely to occur within area
<i>Cynanchum elegans</i> White-flowered Wax Plant	Endangered	Species or species habitat likely to occur within area
<i>Dillwynia tenuifolia</i>	Vulnerable	Species or species habitat likely to occur within area
<i>Grevillea parviflora subsp. parviflora</i> Small-flower Grevillea	Vulnerable	Species or species habitat likely to occur within area
<i>Persoonia nutans</i>	Endangered	Species or species habitat likely to occur within area
<i>Pimelea curviflora var. curviflora</i>	Vulnerable	Species or species habitat known to occur within area
<i>Pimelea spicata</i>	Endangered	Species or species habitat may occur within area
<i>Pomaderris brunea</i> Rufous Pomaderris	Vulnerable	Species or species habitat likely to occur within area
<i>Pultenaea parviflora</i>	Vulnerable	Species or species habitat likely to occur within area
Migratory Species [Dataset Information]	Status	Type of Presence

Migratory Terrestrial Species**Birds**

[*Haliaeetus leucogaster*](#)
White-bellied Sea-Eagle

Migratory Species or species habitat likely to occur within area

[*Hirundapus caudacutus*](#)
White-throated Needletail

Migratory Species or species habitat may occur within area

[*Merops ornatus*](#)
Rainbow Bee-eater

Migratory Species or species habitat may occur within area

[*Monarcha melanopsis*](#)
Black-faced Monarch

Migratory Breeding may occur within area

[*Myiagra cyanoleuca*](#)
Satin Flycatcher

Migratory Breeding likely to occur within area

[*Rhipidura rufilrons*](#)
Rufous Fantail

Migratory Breeding may occur within area

[*Xanthomyza phrygia*](#)
Regent Honeyeater

Migratory Species or species habitat likely to occur within area

Migratory Wetland Species**Birds**

[*Ardea alba*](#)
Great Egret, White Egret

Migratory Species or species habitat may occur within area

[*Ardea ibis*](#)
Cattle Egret

Migratory Species or species habitat may occur within area

[*Gallinago hardwickii*](#)
Latham's Snipe, Japanese Snipe

Migratory Species or species habitat may occur within area

[*Rostratula benghalensis s. lat.*](#)
Painted Snipe

Migratory Species or species habitat may occur within area

Migratory Marine Birds

[*Apus pacificus*](#)
Fork-tailed Swift

Migratory Species or species habitat may occur within area

[*Ardea alba*](#)
Great Egret, White Egret

Migratory Species or species habitat may occur within area

[*Ardea ibis*](#)
Cattle Egret

Migratory Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species [[Dataset Information](#)]

Status Type of Presence

Birds

[*Apus pacificus*](#)
Fork-tailed Swift

Listed - overfly marine area Species or species habitat may occur within area

[*Ardea alba*](#)
Great Egret, White Egret

Listed - overfly marine area Species or species habitat may occur within area

[*Ardea ibis*](#)
Cattle Egret

Listed - overfly marine area Species or species habitat may occur within area

[*Gallinago hardwickii*](#)
Latham's Snipe, Japanese Snipe

Listed - overfly marine area Species or species habitat may occur within area

[*Haliaeetus leucogaster*](#)
White-bellied Sea-Eagle

Listed Species or species habitat likely to occur within area

[*Hirundapus caudacutus*](#)
White-throated Needletail

Listed - overfly Species or species habitat may occur within area

<i>Lathamus discolor</i> Swift Parrot	marine area Listed - overfly marine area	Species or species habitat may occur within area
<i>Merops ornatus</i> Rainbow Bee-eater	Listed - overfly marine area	Species or species habitat may occur within area
<i>Monarcha melanopsis</i> Black-faced Monarch	Listed - overfly marine area	Breeding may occur within area
<i>Myiagra cyanoleuca</i> Satin Flycatcher	Listed - overfly marine area	Breeding likely to occur within area
<i>Rhipidura rufifrons</i> Rufous Fantail	Listed - overfly marine area	Breeding may occur within area
<i>Rostratula benghalensis s. lat.</i> Painted Snipe	Listed - overfly marine area	Species or species habitat may occur within area

Commonwealth Lands [[Dataset Information](#)]

Communications, Information Technology and the Arts - Australian Postal Corporation

Communications, Information Technology and the Arts - Telstra Corporation Limited

Defence

Defence - Defence Housing Authority

Unknown

Commonwealth Heritage Places [[Dataset Information](#)]

[Orchard Hills Cumberland Plain Woodland NSW](#)

Places on the RNE [[Dataset Information](#)]

Note that not all Indigenous sites may be listed.

Historic

[Horsley Garden NSW](#)

[Horsley Homestead, Outbuildings and Surrounds NSW](#)

[Hoxton Park Airport NSW](#)

[Mamre and Curtilage NSW](#)

[St Mary Magdalene Anglican Church & Cemetery NSW](#)

[St Marys Permanent Cottage Area NSW](#)

Indigenous

[Native Institution NSW](#)

Natural

[Kemps Creek Natural Area NSW](#)

[Orchard Hills Cumberland Plain Woodland NSW](#)

[Western Sydney Shale Woodland St Marys NSW](#)

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 Heritage and Register of National Estate properties, Wetlands of International 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.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under "type of presence". For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the [migratory](#) and [marine](#) provisions of the Act have been mapped.

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.

Acknowledgments

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

- [New South Wales National Parks and Wildlife Service](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Water and Environment, Tasmania](#)
- [Department of Environment and Heritage, South Australia Planning SA](#)
- [Parks and Wildlife Commission of the Northern Territory](#)
- [Environmental Protection Agency, Queensland](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [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, Atherton and Canberra](#)
- [University of New England](#)
- Other groups and individuals

[ANUCIM Version 1.8, Centre for Resource and Environmental Studies, Australian National University](#) was used extensively for the production of draft maps of species distribution. Environment Australia is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

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Lot 5 in DP 262211 Ropes Creek
Horsley Park Employment Precinct

Proposed Industrial Development
Major Project MP 10_xxxx

Ecological Issues & Assessment Report

Appendix D
Flora species recorded on the subject site

6th August 2010



Whelans InSites Pty Ltd

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KEY	
Status	
*	Exotic Species
**	Noxious Weed Species
PG	Pasture Grasses
DV	Disturbed Aquatic and Semi Aquatic Vegetation
RF	River-flat Forest
AW	Alluvial Woodland
FG	Forest Red Gum

STATUS	SCIENTIFIC NAME	COMMON NAME	VEG TYPE
*	Apiaceae <i>Daucus carota</i>	Wild Carrot	PG
*	Apocynaceae <i>Araujia sericifera</i>	Moth Vine	AW
*	Asparagaceae <i>Asparagus asparagoides</i>	Bridal Creeper	AW
*	Asteraceae <i>Bidens pilosa</i>	Cobbler's Pegs	PG
*	<i>Cirsium vulgare</i>	Spear Thistle	RF
*	<i>Conyza bonariensis</i>	Flaxleaf Fleabane	PG
-	<i>Cotula australis</i>	Common Cotula	DV
*	<i>Hypochaeris radicata</i>	Cats-ear	PG
*	<i>Senecio madagascariensis</i>	Fireweed	PG
*	<i>Sonchus oleraceus</i>	Common Sowthistle	PG
*	<i>Taraxacum officinale</i>	Dandelion	PG
*	Brassicaceae <i>Lepidium africanum</i>	-	PG
-	Casuarinaceae <i>Casuarina glauca</i>	Swamp Oak	RF, AW
-	Convolvulaceae <i>Dichondra repens</i>	Kidney Weed	RF
*	Cyperaceae <i>Cyperus eragrostis</i>	Umbrella Sedge	DV
-	<i>Cyperus gracilis</i>	Slender Flat-sedge	DV
-	<i>Eleocharis sphacelata</i>	Tall Spike Rush	DV
*	Fabaceae (Faboideae) <i>Lotus uliginosus</i>	Birds-foot Trefoil	PG
*	<i>Trifolium pratense</i>	Red Clover	PG
*	<i>Trifolium repens</i>	White Clover	PG
*	<i>Vicia sativa</i> subsp. <i>sativa</i>	Common Vetch	PG, DV
-	Fabaceae (mimosoideae) <i>Acacia parramattensis</i>	Parramatta Wattle	AW
*	Juncaceae <i>Juncus acutus</i>	Sharp Rush	DV, RF
-	<i>Juncus usitatus</i>	-	DV, RF
-	Juncaginaceae <i>Triglochin procerum</i>	Water Ribbons	DV
-	Lomandraceae <i>Lomandra longifolia</i>	Spiny-headed Mat-rush	AW
*	Malvaceae <i>Sida rhombifolia</i>	Paddy's Lucerne	PG, AW

STATUS	SCIENTIFIC NAME	COMMON NAME	VEG TYPE
*	Myrsinaceae <i>Anagallis arvensis</i>	Scarlet/Blue Pimpernel	PG, DV
	Myrtaceae		
-	<i>Angophora subvelutina</i>	Broad-leaved Apple	RF, AW
-	<i>Eucalyptus amplifolia</i> subsp. <i>amplifolia</i>	Cabbage Gum	RF, AW
-	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	AW
-	<i>Eucalyptus fibrosa</i>	Broad-leaved Ironbark	AW
-	<i>Eucalyptus moluccana</i>	Grey Box	AW, RF
-	<i>Eucalyptus tereticornis</i>	Forest Red Gum	FG, AW, RF
-	<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	RF
-	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	RF
	Philydraceae		
-	<i>Philydrum lanuginosum</i>	Frogsmouth	DV
	Pittosporaceae		
-	<i>Bursaria spinosa</i>	Blackthorn	RF
	Plantaginaceae		
*	<i>Plantago lanceolata</i>	Lamb's Tongues	PG, DV
	Poaceae		
-	<i>Aristida vagans</i>	Threeawn Speargrass	RF
-	<i>Austrodanthonia tenuior</i>	-	RF
*	<i>Axonopus fissifolius</i>	Narrow-leaved Carpet Grass	PG, DV
*	<i>Chloris gayana</i>	Rhodes Grass	AW
-	<i>Chloris virgata</i>	Feathertop Rhodes Grass	RF
-	<i>Cynodon dactylon</i>	Common Couch	AV, RF
*	<i>Eragrostis curvula</i>	African Love Grass	RF
-	<i>Eragrostis leptostachya</i>	Paddock Love Grass	RF
-	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	RF
*	<i>Paspalum dilatatum</i>	Paspalum	PG, DV, RF
-	<i>Paspalum distichum</i>	Water Couch	DV
*	<i>Pennisetum clandestinum</i>	Kikuyu Grass	PG
-	<i>Phragmites australis</i>	Common Reed	AW
*	<i>Setaria gracilis</i>	Slender Pigeon Grass	PG, RF, DV
*	<i>Sporobolus africanus</i>	Parramatta Grass	DV
-	<i>Sporobolus creber</i>	Slender Rat's Tail Grass	RF
	Polygonaceae		
-	<i>Persicaria decipiens</i>	Slender Knotweed	DV
*	<i>Rumex crispus</i>	Curled Dock	DV
	Ranunculaceae		
-	<i>Clematis aristata</i>	Old Man's Beard	AW
	Rosaceae		
**	<i>Rosa rubiginosa</i>	Sweet Briar	AW
*	<i>Rubus fruticosus</i> complex.	Blackberry	DV, RF
	Solanaceae		
*	<i>Lycium ferocissimum</i>	African Boxthorn	RF, AW
*	<i>Solanum nigrum</i>	Black-berry Nightshade	AW
	Typhaceae		
-	<i>Typha orientalis</i>	Broad-leaved Cumbungi	DV



Lot 5 in DP 262212
Ropes Creek Employment Precinct

Proposed Industrial Development
Major Project MP 10_xxxx

Ecological Issues & Assessment Report

Appendix E
Fauna species recorded on the subject site

6th August 2010



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APPENDIX E Fauna species list on the subject site at Ropes Creek.

STATUS	COMMON NAME	SCIENTIFIC NAME	HABITAT on SITE
AVES			
M	Anatidae Australasian Grebe Australian Wood Duck Chestnut Teal Pacific Black Duck	<i>Tachybaptus novaehollandiae</i> <i>Chenonetta jubata</i> <i>Anas castanea</i> <i>Anas superciliosa</i>	Farm Dams Farm Dams Farm Dams Farm Dams
	Ardeidae White-faced Heron	<i>Egretta novaehollandiae</i>	Edges of Farm Dams
	Rallidae Dusky Moorhen Eurasian Coot Purple Swamphen	<i>Gallinula tenebrosa</i> <i>Fulica atra</i> <i>Porphyrio porphyrio</i>	Edges of Farm Dams Edges of Farm Dams Edges of Farm Dams
	Phalacrocoracidae Pied Cormorant	<i>Phalacrocorax varius</i>	Edges of Farm Dams
	Threskiornithidae Sacred Ibis	<i>Threskiornis molucca</i>	Edges of Farm Dams
	Charadriidae Black-fronted Dotterel Masked Lapwing	<i>Elseyornis melanops</i> <i>Vanellus miles</i>	Edges of Farm Dams Grasslands
	Cacatuidae Galah Long-billed Corella	<i>Cacatua roseicapilla</i> <i>Cacatua tenuirostris</i>	Grasslands Grasslands
	Motacillidae Richard's Pipit	<i>Anthus novaeseelandiae</i>	Grasslands
	Columbidae Crested Pigeon Spotted Turtle-Dove	<i>Ocyphaps lophotes</i> <i>Streptopelia chinensis</i>	Grasslands Woodlands and Grasslands
	Sturnidae Common Starling Common Myna	<i>Sturnus vulgaris</i> <i>Acridotheres tristis</i>	Grasslands Woodlands and Grasslands
	Psittacidae Eastern Rosella Red-rumped Parrot	<i>Platycercus eximius</i> <i>Psephotus haematonotus</i>	Woodlands and Grasslands Woodlands and Grasslands
	Petroicidae Rose Robin	<i>Petroica rosea</i>	Woodlands and Grasslands
	Passeridae Red-browed Finch	<i>Neochmia temporalis</i>	Woodlands and Grasslands
	Maluridae Superb Fairy-wren	<i>Malurus cyaneus</i>	Woodlands and Grasslands
	Pardalotidae Striated Pardalote Yellow Thornbill	<i>Pardalotus striatus</i> <i>Acanthiza nana</i>	Woodlands Woodlands
	Meliphagidae Noisy Miner	<i>Manorina melanocephala</i>	Woodlands and Grasslands
	Dicruridae Magpie-lark Willie Wagtail Grey Fantail	<i>Grallina cyanoleuca</i> <i>Rhipidura leucophrys</i> <i>Rhipidura fuliginosa</i>	Woodlands and Grasslands Woodlands and Grasslands Woodlands and Grasslands
	Artamidae Australian Magpie	<i>Gymnorhina tibicen</i>	Woodlands and Grasslands
	Coraciidae Dollarbird	<i>Eurystomus orientalis</i>	Woodlands

APPENDIX E contd Flora species list on the subject land at Ropes Creek.

STATUS	COMMON NAME	SCIENTIFIC NAME	HABITAT on SITE
	Corvidae Australian Raven	<i>Corvus coronoides</i>	Woodlands and Grasslands
	Hirundinidae Welcome Swallow	<i>Hirundo neoxena</i>	Aerial
	Iconidae Brown Falcon Australian Kestrel	<i>Falco berigora</i> <i>Falco cenchroides</i>	Woodlands and Grasslands Grasslands
Reptiles			
	Scincidae Grass Sun-skink	<i>Lampropholis delicata</i>	Woodlands and Grasslands
	Elapidae Red-bellied Black Snake	<i>Pseudechis porphyriacus</i>	Woodlands and Grasslands
Amphibians			
	Hylidae Common Eastern Froglet	<i>Crinia signifera</i>	Farm Dams
	Myobatrachidae Striped Marsh Frog	<i>Limnodynastes peronii</i>	Farm Dams
Mammals			
	MACropidae Eastern Grey Kangaroo	<i>Macropus gigantues</i>	Woodlands and Grasslands
	Canidae European Red Fox	<i>Vulpes vulpes</i>	Woodlands and Grasslands
	Leporidae Wild Hare	<i>Lepus americanus</i>	Woodlands and Grasslands

Introduced species

M Migratory species listed on the EPBC Act