



Appendix G

Landholder Consent Letters



SSD13_6281
Ref:DB15-07-01

1 July 2015

The Secretary
Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Attention: Mr David Mooney

Dear Mr Mooney

PROPOSED DENILIQUN ETHANOL PLANT SSD 13_6281

Deniliquin Council owns the land comprising of part Lot 234 and Lot 272 DP756325 situated at 234 Barham Road Deniliquin NSW 2710.

Deniliquin Council consents to the lodgement of the Major Project Application to the Department of Planning and Environment in respect to the proposed development as described in the documents comprising the Deniliquin Proposed Ethanol Plant SSD 13_6281 as prepared by AECOM.

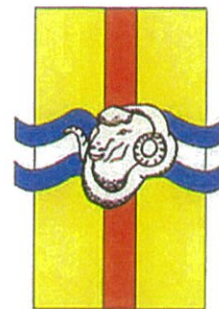
The Ethanol Plant project has been endorsed in principle by the Deniliquin Council and they have also accepted that any treated wastewater not consumed within the plant processes may be returned to the Deniliquin Council Water re-use scheme situated on the part Lot 234 DP756325 adjacent to the proposed plant.

Should you require further information, please contact Des Bilske, General Manager on 03 5898 3040.

Yours sincerely



DES BILSKE
GENERAL MANAGER



DENILIQUN COUNCIL
Achievement through Action

All correspondence to be directed to the General Manager

Civic Centre
Civic Place
PO Box 270
DENILIQUN NSW 2710

Telephone
03 5898 3000

Facsimile
03 5898 3029

Email
council@deniliquin.nsw.gov.au

Website
www.deniliquin.nsw.gov.au

ABN 90 513 847 629



"Matunda"

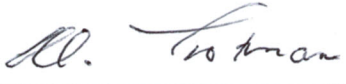
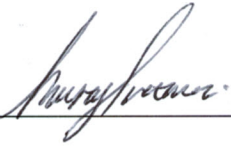
100 Leetham Road,

Deniliquin,

NSW 2710

Landowner's Consent

As the registered owners of the subject property at 100 Leetham Road, Deniliquin (described as Lot 273 on DP 756325), we consent to the lodgement of the Dongmun Greentec Deniliquin Ethanol Plant State Significant Development application to the Department of Planning and Environment.

Signature 1  Signature 2 
Name ANNE-LOUISE TROTMAN Name MURRAY TROTMAN
Date 11-7-15 Date 11-7-15



Appendix H

Flora and Fauna Desktop 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: 13/05/15 10:24:17

[Summary](#)

[Details](#)

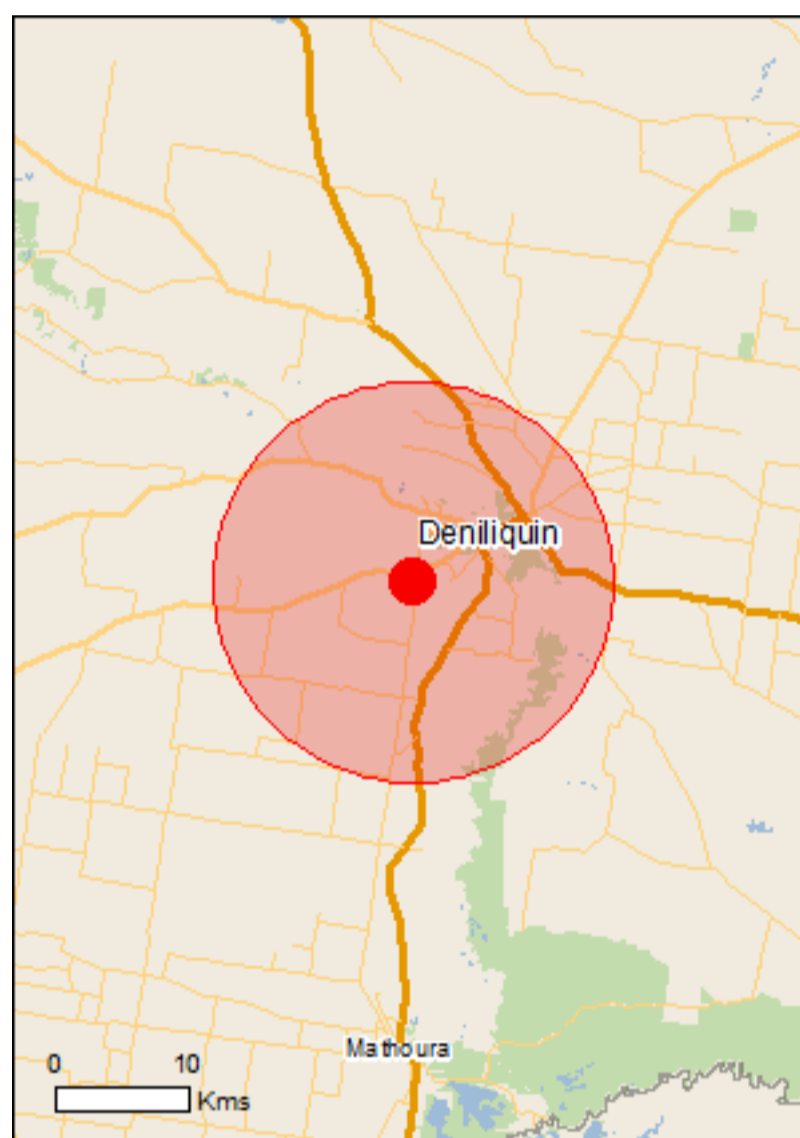
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

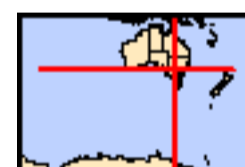
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

[Buffer: 15.0Km](#)



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:	4
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	6
Listed Threatened Species:	17
Listed Migratory Species:	10

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/index.html>

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:	2
Commonwealth Heritage Places:	None
Listed Marine Species:	11
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	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:	2
Regional Forest Agreements:	None
Invasive Species:	27
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[Resource Information]
Name	Proximity
Banrock station wetland complex	Upstream from Ramsar
Coorong and lakes alexandrina and albert	Upstream from Ramsar
Nsw central murray state forests	Within Ramsar site
Riverland	Upstream from Ramsar

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
Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions	Endangered	Community may occur within area
Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia	Endangered	Community likely to occur within area
Natural Grasslands of the Murray Valley Plains	Critically Endangered	Community likely to occur within area
Seasonal Herbaceous Wetlands (Freshwater) of the Temperate Lowland Plains	Critically Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland	Critically Endangered	Community likely to occur within area

Listed Threatened Species [Resource Information]

Name	Status	Type of Presence
Birds		
Anthochaera phrygia Regent Honeyeater [82338]	Endangered	Species or species habitat known to occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
Lathamus discolor Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
Pedionomus torquatus Plains-wanderer [906]	Vulnerable	Species or species habitat known to occur within area
Polytelis swainsonii Superb Parrot [738]	Vulnerable	Breeding known to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Fish		
Bidyanus bidyanus Silver Perch, Bidyan [76155]	Critically Endangered	Species or species

Name	Status	Type of Presence
Craterocephalus fluviatilis Murray Hardyhead [56791]	Endangered	habitat known to occur within area Species or species habitat may occur within area
Maccullochella peelii Murray Cod [66633]	Vulnerable	Species or species habitat may occur within area
Macquaria australasica Macquarie Perch [66632]	Endangered	Species or species habitat may occur within area
Frogs		
Litoria raniformis Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog [1828]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Nyctophilus corbeni South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
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
Plants		
Austrostipa metatoris [66704]	Vulnerable	Species or species habitat may occur within area
Austrostipa wakoolica [66623]	Endangered	Species or species habitat likely to occur within area
Caladenia tensa Greencomb Spider-orchid, Rigid Spider-orchid [24390]	Endangered	Species or species habitat may occur within area
Swainsona murrayana Slender Darling-pea, Slender Swainson, Murray Swainson-pea [6765]	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 Terrestrial Species		
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known 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
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat may occur within area
Migratory Wetlands Species		

Name	Threatened	Type of Presence
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Pandion cristatus Eastern Osprey [82411]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land - Australian Postal Commission
Commonwealth Land - Australian Telecommunications Commission

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may 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 known to occur within area
Hirundapus caudacutus White-throated Needletail [682]		Species or species habitat may occur within area
Lathamus discolor Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves [\[Resource Information \]](#)

Name	State
Murray Valley	NSW
Murray Valley	NSW

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 Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Alauda arvensis Skylark [656]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		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
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Pycnonotus jocosus Red-whiskered Bulbul [631]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
<i>Sturnus vulgaris</i> Common Starling [389]		Species or species habitat likely to occur within area
<i>Turdus merula</i> Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
Mammals		
<i>Bos taurus</i> Domestic Cattle [16]		Species or species habitat likely to occur within area
<i>Canis lupus familiaris</i> Domestic Dog [82654]		Species or species habitat likely to occur within area
<i>Felis catus</i> 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
<i>Lepus capensis</i> Brown Hare [127]		Species or species habitat likely to occur within area
<i>Mus musculus</i> House Mouse [120]		Species or species habitat likely to occur within area
<i>Oryctolagus cuniculus</i> Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
<i>Rattus rattus</i> Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
<i>Sus scrofa</i> Pig [6]		Species or species habitat likely to occur within area
<i>Vulpes vulpes</i> Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
<i>Asparagus asparagoides</i> Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
<i>Eichhornia crassipes</i> Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
<i>Lycium ferocissimum</i> African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
<i>Rubus fruticosus</i> aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
<i>Sagittaria platyphylla</i> Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species or species habitat likely to occur within area
<i>Salix</i> spp. except <i>S.babylonica</i> , <i>S.x calodendron</i> & <i>S.x reichardtii</i> Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Nationally Important Wetlands		[Resource Information]
Name		State
Millewa Forest		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 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.

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 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

-35.5584 144.9077

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:

- [-Department of Environment, Climate Change and Water, New South Wales](#)
- [-Department of Sustainability and Environment, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment and Natural Resources, South Australia](#)
- [-Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts](#)
- [-Environmental and Resource Management, Queensland](#)
- [-Department of Environment and Conservation, Western Australia](#)
- [-Department of the Environment, Climate Change, Energy and Water](#)
- [-Birds Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-SA 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, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [-State Forests of NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- 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.

Threatened Flora Search Results from the Atlas of Living Australia - 10 km radius from the Project site

Matched Scientific Name	Status	Vernacular Name - matched	geodetic [Latitude - processed	Longitude - processed	Year - parsed	Data Resource Name
Brachyscome papillosa	V	Mossgiel Daisy		-35.5167	144.95	1949 Australia's Virtual Herbarium
Lepidium monoplocoides	E	Winged Peppercress		-35.5333	144.95	1945 Australia's Virtual Herbarium
Lepidium monoplocoides	E	Winged Peppercress	GDA94	-35.54717682	144.8825858	1945 OEH Atlas of NSW Wildlife
Maireana cheelii	V	Chariot Wheels		-35.5167	144.95	1947 Australia's Virtual Herbarium
Maireana cheelii	V	Chariot Wheels	AGD84	-35.532012	144.93437	1935 Australia's Virtual Herbarium
Maireana cheelii	V	Chariot Wheels	AGD84	-35.532012	144.967703	1935 Australia's Virtual Herbarium
Maireana cheelii	V	Chariot Wheels		-35.52	144.95	1935 Australia's Virtual Herbarium
Swainsona murrayana	V	Slender Darling Pea		-35.53	144.97	1973 Australia's Virtual Herbarium
Swainsona murrayana	V	Slender Darling Pea	GDA94	-35.54717682	144.8825858	1973 OEH Atlas of NSW Wildlife
Swainsona murrayana	V	Slender Darling Pea		-35.5833	145	Australia's Virtual Herbarium
Swainsona sericea	V	Silky Swainson-pea		-35.5333	144.9333	1973 Australia's Virtual Herbarium
Swainsona sericea	V	Silky Swainson-pea		-35.53	144.97	1973 Australia's Virtual Herbarium
Swainsona sericea	V	Silky Swainson-pea		-35.52	144.95	1945 Australia's Virtual Herbarium

Threatened Fauna Search Results from the Atlas of Living Australia - 10 km radius from Project site

Matched Scientific Name	Status	Class - matched	geodetic Datum	Latitude - proces	Longitude - proces	Year - parsed	Data Resource Name
Antechinomys laniger	E	MAMMALIA	GDA94	-35.53180693	144.967951	1883	OEH Atlas of NSW Wildlife
Anthochaera (Xanthomyza) phrygia	CE	AVES	GDA94	-35.53131116	144.9696176	2006	OEH Atlas of NSW Wildlife
Anthochaera (Xanthomyza) phrygia	CE	AVES	GDA94	-35.53798506	144.9627879	1992	OEH Atlas of NSW Wildlife
Ardeotis australis	E	AVES		-35.583336	144.91667	2005	New South Wales Bird Atlasser
Ardeotis australis	E	AVES	WGS84/GDA94	-35.55	144.95	2005	BirdLife Australia, Birdata
Ardeotis australis	E	AVES	GDA94	-35.56488842	144.9488817	2005	OEH Atlas of NSW Wildlife
Botaurus poiciloptilus	E	AVES	GDA94	-35.49580779	144.9459358	2005	OEH Atlas of NSW Wildlife
Botaurus poiciloptilus	E	AVES	GDA94	-35.49416164	144.9472284	2008	OEH Atlas of NSW Wildlife
Botaurus poiciloptilus	E	AVES	GDA94	-35.53180436	144.9512874	1992	OEH Atlas of NSW Wildlife
Botaurus poiciloptilus	E	AVES	GDA94	-35.49445224	144.9473533	2002	OEH Atlas of NSW Wildlife
Botaurus poiciloptilus	E	AVES	EPSG:4326	-35.58333	144.91666	2012	Eremaea eBird
Botaurus poiciloptilus	E	AVES	EPSG:4326	-35.52999	144.95773	1993	Eremaea eBird
Botaurus poiciloptilus	E	AVES		-35.6	144.9	1970	Historical Bird Atlas
Botaurus poiciloptilus	E	AVES	EPSG:4326	-35.5024002	144.9817657	2001	Eremaea eBird
Botaurus poiciloptilus	E	AVES	EPSG:4326	-35.5389314	144.9865723	2004	Eremaea eBird
Botaurus poiciloptilus	E	AVES	EPSG:4326	-35.4992933	144.9627955	2005	Eremaea eBird
Burhinus (Burhinus) grallarius	E	AVES	GDA94	-35.50561592	144.8816821	2008	OEH Atlas of NSW Wildlife
Burhinus (Burhinus) grallarius	E	AVES	GDA94	-35.64285392	144.9058536	2008	OEH Atlas of NSW Wildlife
Burhinus (Burhinus) grallarius	E	AVES	GDA94	-35.49977178	144.8828722	2008	OEH Atlas of NSW Wildlife
Burhinus (Burhinus) grallarius	E	AVES	EPSG:4326	-35.48415	144.8846	1955	Eremaea eBird
Burhinus (Burhinus) grallarius	E	AVES	EPSG:4326	-35.51098	144.91619	1955	Eremaea eBird
Burhinus (Burhinus) grallarius	E	AVES	GDA94	-35.599741	144.9899211	1989	OEH Atlas of NSW Wildlife
Burhinus (Burhinus) grallarius	E	AVES		-35.58	144.91	1980	First Bird Atlas
Calidris (Erolia) ferruginea	E	AVES		-35.5281749	144.9608231	2005	GBIF records
Certhionyx (Certhionyx) variegatus	V	AVES		-35.543567	144.9592245	2002	GBIF records
Certhionyx (Certhionyx) variegatus	V	AVES	EPSG:4326	-35.52725	144.98283	2002	Eremaea eBird
Circus assimilis	V	AVES	EPSG:4326	-35.6099341	144.8938751	2011	Eremaea eBird
Circus assimilis	V	AVES	GDA94	-35.56366007	144.955461	2011	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.56476579	145.0041024	2005	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53175368	144.968107	2005	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53726978	144.973835	2005	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.55466094	144.9761333	2005	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53645326	144.9833656	2008	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.55366904	144.9847849	2008	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53210082	144.9687478	2009	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.5241548	144.9653298	2009	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.55379492	144.9846933	2005	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.51839257	144.9625886	2004	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53134124	144.9675988	2004	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53082558	144.9685602	2005	OEH Atlas of NSW Wildlife

Matched Scientific Name	Status	Class - matched	geodetic Datum	Latitude - proces	Longitude - proces	Year - parsed	Data Resource Name
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.53974996	144.9605374	1994	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.51952196	144.9638061	1993	OEH Atlas of NSW Wildlife
Climacteris (Climacteris) picumnus victoriae	V	AVES	GDA94	-35.54471209	144.9859902	2005	OEH Atlas of NSW Wildlife
Daphoenositta (Neositta) chrysoptera	V	AVES	AGD84/66	-35.53278	144.9656	2007	BirdLife Australia, Birdata
Daphoenositta (Neositta) chrysoptera	V	AVES		-35.50834	144.968	2006	BirdLife Australia, Birdata
Daphoenositta (Neositta) chrysoptera	V	AVES	AGD84/66	-35.52889	144.9658	2001	BirdLife Australia, Birdata
Daphoenositta (Neositta) chrysoptera	V	AVES	EPSG:4326	-35.52119	144.96813	2012	Eremaea eBird
Daphoenositta (Neositta) chrysoptera	V	AVES	EPSG:4326	-35.5457058	144.9833107	2013	Eremaea eBird
Daphoenositta (Neositta) chrysoptera	V	AVES	WGS84/GDA94	-35.53333	144.9667	2006	BirdLife Australia, Birdata
Daphoenositta (Neositta) chrysoptera	V	AVES	GDA94	-35.61042596	144.997105	2005	OEH Atlas of NSW Wildlife
Epthianura (Epthianura) albifrons	V	AVES		-35.55333	144.9442	2007	BirdLife Australia, Birdata
Epthianura (Epthianura) albifrons	V	AVES		-35.533	144.944	2007	GBIF records
Glossopsitta porphyrocephala	V	AVES	EPSG:4326	-35.53	144.97	2013	Eremaea eBird
Glossopsitta porphyrocephala	V	AVES	EPSG:4326	-35.54	144.98	2007	Eremaea eBird
Glossopsitta porphyrocephala	V	AVES	EPSG:4326	-35.53	144.96	2013	Eremaea eBird
Glossopsitta pusilla	V	AVES	EPSG:4326	-35.54479	144.9821	2007	Eremaea eBird
Grantiella picta	V	AVES	GDA94	-35.60347405	144.9975544	1989	OEH Atlas of NSW Wildlife
Grantiella picta	V	AVES	EPSG:4326	-35.5589961	144.9567498	2005	Eremaea eBird
Grus (Mathewsia) rubicunda	V	AVES	WGS84	-35.52	144.93	1969	Museum Victoria provider for O
Grus (Mathewsia) rubicunda	V	AVES	GDA94	-35.57130893	144.8094831	2008	OEH Atlas of NSW Wildlife
Hieraaetus (Hieraaetus) morphnoides	V	AVES	EPSG:4326	-35.5366	144.93933	2014	Eremaea eBird
Hieraaetus (Hieraaetus) morphnoides	V	AVES		-35.6	144.85	1982	Australian National Wildlife Coll
Hieraaetus (Hieraaetus) morphnoides	V	AVES	EPSG:4326	-35.52853	144.96865	2014	Eremaea eBird
Hieraaetus (Hieraaetus) morphnoides	V	AVES	EPSG:4326	-35.531923	144.9680436	2013	Eremaea eBird
Hieraaetus (Hieraaetus) morphnoides	V	AVES	EPSG:4326	-35.533379	144.97096	2013	Eremaea eBird
Hieraaetus (Hieraaetus) morphnoides	V	AVES	EPSG:4326	-35.528565	144.968474	2013	Eremaea eBird
Hieraaetus (Hieraaetus) morphnoides	V	AVES	WGS84/GDA94	-35.5288887	144.9686127	2012	BirdLife Australia, Birdata
Hieraaetus (Hieraaetus) morphnoides	V	AVES	GDA94	-35.54847816	144.9679465	1996	OEH Atlas of NSW Wildlife
Melanodryas (Melanodryas) cucullata cucullata	V	AVES	GDA94	-35.58637141	144.9990841	1989	OEH Atlas of NSW Wildlife
Neophema (Neophema) pulchella	V	AVES	GDA94	-35.54	144.99	1998	OEH Atlas of NSW Wildlife
Ninox (Hieracoglaux) connivens	V	AVES	GDA94	-35.49	144.89	1993	OEH Atlas of NSW Wildlife
Oxyura australis	V	AVES	GDA94	-35.53687325	144.9417403	2005	OEH Atlas of NSW Wildlife
Pachycephala (Timixos) inornata	V	AVES	EPSG:4326	-35.5448677	144.9823666	2005	Eremaea eBird
Pedionomus torquatus	E	AVES	GDA94	-35.56511632	144.9324978	2011	OEH Atlas of NSW Wildlife
Pedionomus torquatus	E	AVES	GDA94	-35.5647642	144.9361477	2011	OEH Atlas of NSW Wildlife
Petroica (Littlera) phoenicea	V	AVES		-35.51667	144.9833	2005	BirdLife Australia, Birdata
Petroica (Littlera) phoenicea	V	AVES	WGS84/GDA94	-35.54805	144.9903	2006	BirdLife Australia, Birdata
Polytelis swainsonii	V	AVES		-35.6	145	2000	BirdLife Australia, Birdata
Polytelis swainsonii	V	AVES	GDA94	-35.6	144.92	2011	OEH Atlas of NSW Wildlife
Polytelis swainsonii	V	AVES	GDA94	-35.62	144.87	1985	Victorian Biodiversity Atlas
Polytelis swainsonii	V	AVES	EPSG:4326	-35.53	144.94	2010	Eremaea eBird
Pomatostomus (Pomatostomus) temporalis temp	V	AVES	GDA94	-35.52078412	144.986357	2008	OEH Atlas of NSW Wildlife

Matched Scientific Name	Status	Class - matched	geodetic Datum	Latitude - proces	Longitude - proces	Year - parsed	Data Resource Name
Pomatostomus (Pomatostomus) temporalis temp	V	AVES	GDA94	-35.52032459	144.9870885	2008	OEH Atlas of NSW Wildlife
Stagonopleura (Stagonopleura) guttata	V	AVES		-35.54611	144.9836	2005	BirdLife Australia, Birdata
Stictonetta naevosa	V	AVES	AGD84/66	-35.53722	144.9403	2005	BirdLife Australia, Birdata
Stictonetta naevosa	V	AVES	WGS84/GDA94	-35.53695	144.9389	2005	BirdLife Australia, Birdata
Stictonetta naevosa	V	AVES	GDA94	-35.48631272	144.8935529	1993	OEH Atlas of NSW Wildlife

Threatened Fauna Search Results from the BioNet Search - 20 km radius from the Project site

ClassName	ScientificName	CommonName	NSWStatus	CommStatus	DateLast	Zone	Easting	Northing	Accuracy
Aves	Oxyura australis	Blue-billed Duck	V,P		31/10/2005		55 313402	6065469	100
Aves	Stictonetta naevosa	Freckled Duck	V,P		1/11/1993		55 308913	6070985	1000
Aves	Stictonetta naevosa	Freckled Duck	V,P		20/04/2005		55 313402	6065469	100
Aves	Stictonetta naevosa	Freckled Duck	V,P		2/06/2005		55 313402	6065469	100
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/01/1992		55 314256	6066049	10000
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	28/11/1992		55 314256	6066049	10000
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/12/2002		55 313813	6070185	100
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/12/2007		55 313688	6070032	100
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/12/2008		55 313801	6070217	100
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/12/2009		55 313801	6070217	100
Aves	Botaurus poiciloptilus	Australasian Bittern	E1,P	E	31/12/2005		55 313688	6070032	100
Aves	Circus assimilis	Spotted Harrier	V,P		7/12/1991		55 308608	6047432	100
Aves	Circus assimilis	Spotted Harrier	V,P		7/12/1991		55 308608	6047432	100
Aves	Circus assimilis	Spotted Harrier	V,P		9/12/2011		55 314708	6062523	10
Aves	Hieraaetus morphnoides	Little Eagle	V,P		30/06/1994		55 315113	6065185	100
Aves	Hieraaetus morphnoides	Little Eagle	V,P		31/12/2002		55 313813	6070185	100
Aves	Hieraaetus morphnoides	Little Eagle	V,P		14/12/1996		55 315805	6064231	100
Aves	Hieraaetus morphnoides	Little Eagle	V,P		31/12/2008		55 313801	6070217	100
Aves	Hieraaetus morphnoides	Little Eagle	V,P		17/04/2009		55 315840	6066049	500
Aves	Hieraaetus morphnoides	Little Eagle	V,P		31/12/2009		55 313801	6070217	100
Aves	Hieraaetus morphnoides	Little Eagle	V,P		31/12/1995		55 313813	6070185	1000
Aves	Hieraaetus morphnoides	Little Eagle	V,P		31/12/1998		55 313813	6070185	100
Aves	Lophoictinia isura	Square-tailed Kite	V,P,3		29/01/1983		55 314135	6066247	10000
Aves	Falco hypoleucos	Grey Falcon	E1,P,2		31/12/1955		55 318602	6069668	10000
Aves	Falco subniger	Black Falcon	V,P		10/09/1992		55 311713	6069285	100
Aves	Falco subniger	Black Falcon	V,P		30/06/1994		55 315113	6065185	100
Aves	Falco subniger	Black Falcon	V,P		28/11/1992		55 314913	6065285	1000
Aves	Falco subniger	Black Falcon	V,P		31/12/2002		55 313813	6070185	100
Aves	Falco subniger	Black Falcon	V,P		31/12/2006		55 313688	6070032	100
Aves	Falco subniger	Black Falcon	V,P		15/04/2005		55 308177	6051292	100
Aves	Falco subniger	Black Falcon	V,P		31/12/2007		55 313688	6070032	100
Aves	Falco subniger	Black Falcon	V,P		31/12/2008		55 313801	6070217	100
Aves	Falco subniger	Black Falcon	V,P		31/12/2009		55 313801	6070217	100
Aves	Falco subniger	Black Falcon	V,P		31/12/1999		55 313813	6070185	1000
Aves	Falco subniger	Black Falcon	V,P		31/12/2003		55 313813	6070185	1000
Aves	Falco subniger	Black Falcon	V,P		22/11/2004		55 304008	6062141	100
Aves	Falco subniger	Black Falcon	V,P		31/12/2004		55 313801	6070217	100
Aves	Grus rubicunda	Brolga	V,P		22/09/2008		55 301495	6061390	500

ClassName	ScientificName	CommonName	NSWStatus	CommStatus	DateLast	Zone	Easting	Northing	Accuracy
Aves	Ardeotis australis	Australian Bustard	E1,P		22/04/2005	55	314114	6062374	10
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		18/11/1991	55	315653	6071626	100
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		18/11/1991	55	315653	6071626	100
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		23/04/2008	55	307882	6068821	200
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		23/04/2008	55	310399	6053643	200
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		23/04/2008	55	307976	6069471	200
Aves	Burhinus grallarius	Bush Stone-curlew	E1,P		11/06/1989	55	317913	6058585	100
Aves	Pedionomus torquatus	Plains-wanderer	E1,P	V	23/04/2011	55	312630	6062318	15
Aves	Pedionomus torquatus	Plains-wanderer	E1,P	V	23/04/2011	55	312960	6062364	15
Aves	Rostratula australis	Australian Painted Snipe	E1,P	E	8/02/1992	55	314256	6066049	10000
Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	V,P,2		30/12/1995	55	309530	6069479	100
Aves	Glossopsitta porphyrocephala	Purple-crowned Lorikeet	V,P,3		2/11/2010	55	316878	6065193	10
Aves	Glossopsitta porphyrocephala	Purple-crowned Lorikeet	V,P,3		6/11/2010	55	316878	6065193	10
Aves	Neophema pulchella	Turquoise Parrot	V,P,3		31/08/1997	55	317785	6065212	100
Aves	Neophema pulchella	Turquoise Parrot	V,P,3		24/07/1998	55	317785	6065212	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	2/09/2008	55	310862	6049531	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	18/10/2008	55	311579	6058424	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	4/11/2008	55	310909	6047312	50
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/07/2004	55	314066	6069574	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	22/07/2004	55	314973	6069593	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	22/06/2004	55	314066	6069574	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	6/09/2009	55	315949	6066284	50
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	12/09/2009	55	311814	6047331	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	11/10/2010	55	310744	6055077	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/10/2010	55	310838	6050640	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	2/12/2010	55	311579	6058424	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	10/12/2010	55	310720	6056187	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	18/04/1981	55	314135	6066247	10000
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	15/08/1995	55	314043	6070684	1000
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	19/11/1993	55	315019	6067375	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	22/11/1993	55	314528	6047388	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	26/11/1993	55	314528	6047388	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	26/11/1993	55	314505	6048498	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	26/11/1993	55	314505	6048498	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	9/09/2001	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	11/10/2006	55	315949	6066284	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	13/10/2006	55	315949	6066284	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	6/11/2006	55	315949	6066284	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2006	55	314066	6069574	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	27/09/2004	55	309838	6055058	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	15/04/2005	55	309838	6055058	100

ClassName	ScientificName	CommonName	NSWStatus	CommStatus	DateLast	Zone	Easting	Northing	Accuracy
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	13/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	15/04/2005	55	316901	6064084	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2007	55	314066	6069574	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2008	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	17/04/2009	55	315949	6066284	500
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2009	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	12/07/2011	55	311579	6058424	30
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	15/09/2011	55	310885	6048421	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	15/09/2011	55	310744	6055077	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2011	55	310838	6050640	20
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	14/11/2011	55	310838	6050640	20
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	17/11/2011	55	310838	6050640	20
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	23/11/2011	55	310814	6051749	20
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	22/01/1998	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	19/08/2000	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/1995	55	314043	6070684	1000
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/1997	55	314043	6070684	1000
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2003	55	314043	6070684	1000
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/12/2004	55	314043	6070684	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	5/12/2004	55	314436	6051826	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/2003	55	313530	6051807	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	1/11/1996	55	314505	6048498	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/09/2005	55	318849	6057465	100
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	314505	6048498	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	314436	6051826	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/06/2006	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	16/10/2007	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	16/10/2007	55	313530	6051807	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/10/2007	55	312649	6050678	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	6/11/2007	55	314482	6049607	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	30/10/2007	55	313554	6050697	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	31/10/2007	55	312625	6051788	10
Aves	Polytelis swainsonii	Superb Parrot	V,P,3	V	16/10/2007	55	313530	6051807	10
Aves	Ninox connivens	Barking Owl	V,P,3		31/12/1992	55	314135	6066247	10000

ClassName	ScientificName	CommonName	NSWStatus	CommStatus	DateLast	Zone	Easting	Northing	Accuracy
Aves	Ninox connivens	Barking Owl	V,P,3		27/08/1992	55	317785	6065212	100
Aves	Ninox connivens	Barking Owl	V,P,3		13/02/1993	55	315065	6065156	1000
Aves	Ninox connivens	Barking Owl	V,P,3		1/11/1993	55	308600	6070569	1000
Aves	Ninox connivens	Barking Owl	V,P,3		31/12/1991	55	315065	6065156	1000
Aves	Ninox connivens	Barking Owl	V,P,3		22/11/1998	55	315042	6066265	100
Aves	Ninox connivens	Barking Owl	V,P,3		30/09/1992	55	314135	6066247	10000
Aves	Tyto novaehollandiae	Masked Owl	V,P,3		31/01/1955	55	315065	6065156	1000
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		30/06/1994	55	315113	6065185	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		10/06/1989	55	317913	6058585	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		19/11/1993	55	315363	6067435	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		22/11/1993	55	314913	6047535	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		26/11/1993	55	314713	6047585	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		26/11/1993	55	314613	6048035	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		26/11/1993	55	314413	6048410	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		31/12/2002	55	313813	6070185	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		16/02/2005	55	319119	6062491	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		17/03/2005	55	301761	6070492	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		8/02/2005	55	315781	6066086	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		13/11/2003	55	313521	6051495	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		23/12/2004	55	316313	6065485	1000
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		19/02/2005	55	316313	6065485	1000
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		9/04/2005	55	316313	6065485	1000
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		15/04/2005	55	317335	6063672	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		6/05/2005	55	316561	6063560	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		26/06/2005	55	315820	6066190	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		14/09/2005	55	315820	6066190	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		27/09/2005	55	317432	6064682	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		5/04/2008	55	317175	6065593	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		5/04/2008	55	317343	6063686	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		17/04/2009	55	315840	6066049	500
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		17/04/2009	55	315512	6066924	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		27/08/2004	55	315250	6067558	100
Aves	Climacteris picumnus victor	Brown Treecreeper (eas	V,P		27/08/2004	55	315734	6066131	100
Aves	Anthochaera phrygia	Regent Honeyeater	E4A,P	E	28/09/1992	55	315313	6065385	100
Aves	Anthochaera phrygia	Regent Honeyeater	E4A,P	E	29/10/2006	55	315917	6066138	100
Aves	Certhionyx variegatus	Pied Honeyeater	V,P		31/12/2006	55	313688	6070032	100
Aves	Epthianura albifrons	White-fronted Chat	V,P		30/06/1994	55	315113	6065185	100
Aves	Grantiella picta	Painted Honeyeater	V,P		26/01/1992	55	314256	6066049	10000
Aves	Grantiella picta	Painted Honeyeater	V,P		11/06/1989	55	318613	6058185	100
Aves	Pomatostomus temporalis t	Grey-crowned Babbler (t	V,P		24/11/2008	55	317411	6067337	10
Aves	Pomatostomus temporalis t	Grey-crowned Babbler (t	V,P		30/06/1994	55	315113	6065185	100

ClassName	ScientificName	CommonName	NSWStatus	CommStatus	DateLast	Zone	Easting	Northing	Accuracy
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2000	55	313813	6070185	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2006	55	313688	6070032	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	10/02/2005	55	319987	6071209	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	17/03/2005	55	301761	6070492	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	27/09/2005	55	317432	6064682	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2007	55	313688	6070032	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2008	55	313801	6070217	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	3/12/2008	55	317477	6067389	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2005	55	313688	6070032	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/1996	55	313813	6070185	1000
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/1999	55	313813	6070185	1000
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/1995	55	313813	6070185	1000
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2003	55	313813	6070185	1000
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/2004	55	313801	6070217	100
Aves	Pomatostomus temporalis	Grey-crowned Babbler	t	(V,P	31/12/1998	55	313813	6070185	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	11/06/1989	55	317913	6058585	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	8/02/2005	55	315781	6066086	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	6/05/2005	55	316561	6063560	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	14/09/2005	55	315820	6066190	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	5/04/2008	55	317175	6065593	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	31/12/2008	55	313801	6070217	100
Aves	Daphoenositta chrysoptera	Varied Sittella		V,P	30/09/2005	55	318588	6057413	100
Aves	Melanodryas cucullata	Hooded Robin (south-ea	V,P		30/06/1994	55	315113	6065185	100
Aves	Melanodryas cucullata	Hooded Robin (south-ea	V,P		12/06/1989	55	318713	6060085	1000
Aves	Petroica boodang	Scarlet Robin		V,P	30/06/1994	55	315113	6065185	100
Aves	Petroica phoenicea	Flame Robin		V,P	11/06/1989	55	318613	6058185	100
Aves	Petroica phoenicea	Flame Robin		V,P	6/05/2005	55	316561	6063560	100
Aves	Petroica phoenicea	Flame Robin		V,P	31/12/2007	55	313688	6070032	100
Aves	Petroica phoenicea	Flame Robin		V,P	31/12/1995	55	313813	6070185	1000
Aves	Petroica phoenicea	Flame Robin		V,P	31/12/1998	55	313813	6070185	100
Aves	Stagonopleura guttata	Diamond Firetail		V,P	12/06/1989	55	318713	6060085	1000
Aves	Stagonopleura guttata	Diamond Firetail		V,P	27/09/2005	55	317432	6064682	100
Mammalia	Antechinomys laniger	Kultarr		E1,P	01/01/1883	55	315767	6066080	100000
Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale		V,P	11/06/1989	55	318613	6058185	100
Mammalia	Phascolarctos cinereus	Koala		V,P	11/06/1989	55	318613	6058185	100
Mammalia	Lasiorhinus krefftii	Northern Hairy-nosed	W	E4,P	30/12/1884	55	315113	6066185	100000
Mammalia	Petrogale penicillata	Brush-tailed Rock-wallat		E1,P	12/12/1911	55	315767	6066080	100000
Mammalia	Nyctophilus corbeni	Corben's Long-eared Ba		V,P	31/12/1988	55	314256	6066049	100000

Threatened Flora Search Results from the BioNet Search - 20 km radius from the Project site

FamilyName	ScientificName	CommonName	NSWStatus	CommStatus	DateFirst	Latitude_GDA94	Longitude_GDA94	Zone	Accuracy
Brassicaceae	Lepidium monoplocoides	Winged Peppercross	E1,P	E	1/12/1945	-35.54717682	144.8825858	55	1000
Chenopodiaceae	Maireana cheelii	Chariot Wheels	V,P	V	1/09/1935	-35.51514486	144.9512796	55	10000
Fabaceae (Faboideae)	Swainsona murrayana	Slender Darling Pea	V,P	V	1/11/1973	-35.54717682	144.8825858	55	1000
Fabaceae (Faboideae)	Swainsona murrayana	Slender Darling Pea	V,P	V	1/11/1973	-35.53181141	144.9679463	55	1000
Fabaceae (Faboideae)	Swainsona sericea	Silky Swainson-pea	V,P		1/11/1973	-35.53181141	144.9679463	55	25000
Fabaceae (Faboideae)	Swainsona sericea	Silky Swainson-pea	V,P		1/09/1945	-35.51514486	144.9512796	55	10000

Data from the BioNet Atlas of NSW Wildlife website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1Å°; ^ rounded to 0.01Å°). Copyright the State of NSW through the Office of Environment and Heritage. Search criteria : Public Report of all Valid Records of Entities in selected area [North: -35.47 West: 144.9 East: 145 South: -35.6] returned a total of Report generated on 13/05/2015 2:48 PM

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records
Animalia	Amphibia	Myobatrachidae	3131	<i>Crinia parinsignifera</i>		Eastern Sign-bearing Froglet	P		4
Animalia	Amphibia	Myobatrachidae	3134	<i>Crinia signifera</i>		Common Eastern Froglet	P		5
Animalia	Amphibia	Myobatrachidae	3058	<i>Limnodynastes dumerilii</i>		Eastern Banjo Frog	P		7
Animalia	Amphibia	Myobatrachidae	3059	<i>Limnodynastes fletcheri</i>		Long-thumbed Frog	P		6
Animalia	Amphibia	Myobatrachidae	3063	<i>Limnodynastes tasmaniensis</i>		Spotted Grass Frog	P		10
Animalia	Amphibia	Hylidae	3204	<i>Litoria peronii</i>		Peron's Tree Frog	P		8
Animalia	Reptilia	Gekkonidae	2126	<i>Christinus marmoratus</i>		Marbled Gecko	P		3
Animalia	Reptilia	Gekkonidae	2076	<i>Diplodactylus tessellatus</i>		Tessellated Gecko	P		3
Animalia	Reptilia	Gekkonidae	2092	<i>Gehyra variegata</i>		Tree Dtella	P		6
Animalia	Reptilia	Pygopodidae	2160	<i>Delma inornata</i>		Patternless Delma	P		1
Animalia	Reptilia	Pygopodidae	2911	<i>Pygopus schraderi</i>		Eastern Hooded Scaly-foot	P		1
Animalia	Reptilia	Scincidae	5156	<i>Cryptoblepharus australis</i>		Inland Snake-eyed Skink	P		11
Animalia	Reptilia	Scincidae	2519	<i>Menetia greyii</i>		Common Dwarf Skink	P		2
Animalia	Reptilia	Scincidae	2526	<i>Morethia boulengeri</i>		South-eastern Morethia Skink	P		9
Animalia	Reptilia	Scincidae	2580	<i>Tiliqua scincoides</i>		Eastern Blue-tongue	P		4
Animalia	Reptilia	Agamidae	2177	<i>Pogona barbata</i>		Bearded Dragon	P		9
Animalia	Reptilia	Varanidae	2271	<i>Varanus gouldii</i>		Gould's Goanna	P		1
Animalia	Reptilia	Varanidae	2283	<i>Varanus varius</i>		Lace Monitor	P		4
Animalia	Reptilia	Typhlopidae	2588	<i>Ramphotyphlops bituberculatus</i>		Prong-snouted Blind Snake	P		1
Animalia	Reptilia	Typhlopidae	2603	<i>Ramphotyphlops proximus</i>		Proximus Blind Snake	P		1
Animalia	Reptilia	Elapidae	2699	<i>Pseudonaja textilis</i>		Eastern Brown Snake	P		6
Animalia	Reptilia	Elapidae	2722	<i>Suta suta</i>		Curl Snake	P		4
Animalia	Reptilia	Elapidae	2734	<i>Vermicella</i>		Bandy-bandy	P		1
Animalia	Aves	Casuariidae	0001	<i>Dromaius novaehollandiae</i>		Emu	P		1
Animalia	Aves	Phasianidae	0009	<i>Coturnix pectoralis</i>		Stubble Quail	P		1
Animalia	Aves	Anatidae	0210	<i>Anas castanea</i>		Chestnut Teal	P		2
Animalia	Aves	Anatidae	0211	<i>Anas gracilis</i>		Grey Teal	P		21
Animalia	Aves	Anatidae	0948	<i>Anas</i>	*	Mallard			1
Animalia	Aves	Anatidae	0212	<i>Anas rhynchotis</i>		Australasian Shoveler	P		2
Animalia	Aves	Anatidae	0208	<i>Anas superciliosa</i>		Pacific Black Duck	P		43
Animalia	Aves	Anatidae	0215	<i>Aythya australis</i>		Hardhead	P		5
Animalia	Aves	Anatidae	0217	<i>Biziura lobata</i>		Musk Duck	P		5
Animalia	Aves	Anatidae	0198	<i>Cereopsis novaehollandiae</i>		Cape Barren Goose	P		2
Animalia	Aves	Anatidae	0202	<i>Chenonetta jubata</i>		Australian Wood	P		29
Animalia	Aves	Anatidae	0203	<i>Cygnus atratus</i>		Black Swan	P		3
Animalia	Aves	Anatidae	0205	<i>Dendrocygna</i>		Plumed Whistling-	P		6
Animalia	Aves	Anatidae	0213	<i>Malacorhynchus membranaceus</i>		Pink-eared Duck	P		5

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records
Animalia	Aves	Anatidae	0216	<i>Oxyura australis</i>		Blue-billed Duck	V,P		1
Animalia	Aves	Anatidae	0214	<i>Stictonetta</i>		Freckled Duck	V,P		2
Animalia	Aves	Anatidae	0207	<i>Tadorna</i>		Australian Shelduck	P		2
Animalia	Aves	Podicipedidae	0062	<i>Poliocephalus poliocephalus</i>		Hoary-headed Grebe	P		5
Animalia	Aves	Podicipedidae	0061	<i>Tachybaptus novaehollandiae</i>		Australasian Grebe	P		4
Animalia	Aves	Columbidae	0957	<i>Columba livia</i>	*	Rock Dove			15
Animalia	Aves	Columbidae	9931	<i>Geopelia striata</i>		Peaceful Dove	P		17
Animalia	Aves	Columbidae	0043	<i>Ocyphaps lophotes</i>		Crested Pigeon	P		17
Animalia	Aves	Columbidae	0034	<i>Phaps chalcoptera</i>		Common Bronzewing	P		9
Animalia	Aves	Columbidae	0989	<i>Streptopelia chinensis</i>	*	Spotted Turtle-Dove			1
Animalia	Aves	Podargidae	0313	<i>Podargus</i>		Tawny Frogmouth	P		5
Animalia	Aves	Caprimulgidae	0331	<i>Eurostopodus argus</i>		Spotted Nightjar	P		1
Animalia	Aves	Aegothelidae	0317	<i>Aegothales</i>		Australian Owlet-	P		1
Animalia	Aves	Anhingidae	8731	<i>Anhinga novaehollandiae</i>		Australasian Darter	P		6
Animalia	Aves	Phalacrocoracidae	0100	<i>Microcarbo melanoleucos</i>		Little Pied Cormorant	P		14
Animalia	Aves	Phalacrocoracidae	0096	<i>Phalacrocorax carbo</i>		Great Cormorant	P		6
Animalia	Aves	Phalacrocoracidae	0097	<i>Phalacrocorax sulcirostris</i>		Little Black Cormorant	P		8
Animalia	Aves	Phalacrocoracidae	0099	<i>Phalacrocorax varius</i>		Pied Cormorant	P		2
Animalia	Aves	Pelecanidae	0106	<i>Pelecanus conspicillatus</i>		Australian Pelican	P		15
Animalia	Aves	Ardeidae	8712	<i>Ardea modesta</i>		Eastern Great Egret	P		8
Animalia	Aves	Ardeidae	0189	<i>Ardea pacifica</i>		White-necked Heron	P		10
Animalia	Aves	Ardeidae	0197	<i>Botaurus</i>		Australasian Bittern	E1,P	E	7
Animalia	Aves	Ardeidae	0188	<i>Egretta novaehollandiae</i>		White-faced Heron	P		23
Animalia	Aves	Ardeidae	8703	<i>Ixobrychus dubius</i>		Australian Little	P		6
Animalia	Aves	Ardeidae	0192	<i>Nycticorax caledonicus</i>		Nankeen Night Heron	P		2
Animalia	Aves	Threskiornithidae	0182	<i>Platalea flavipes</i>		Yellow-billed Spoonbill	P		11
Animalia	Aves	Threskiornithidae	0181	<i>Platalea regia</i>		Royal Spoonbill	P		3
Animalia	Aves	Threskiornithidae	0178	<i>Plegadis falcinellus</i>		Glossy Ibis	P	C	1
Animalia	Aves	Threskiornithidae	0179	<i>Threskiornis molucca</i>		Australian White Ibis	P		26
Animalia	Aves	Threskiornithidae	0180	<i>Threskiornis spinicollis</i>		Straw-necked Ibis	P		25
Animalia	Aves	Accipitridae	0222	<i>Accipiter cirrocephalus</i>		Collared Sparrowhawk	P		3
Animalia	Aves	Accipitridae	0221	<i>Accipiter fasciatus</i>		Brown Goshawk	P		2
Animalia	Aves	Accipitridae	0224	<i>Aquila audax</i>		Wedge-tailed Eagle	P		6
Animalia	Aves	Accipitridae	0219	<i>Circus</i>		Swamp Harrier	P		1
Animalia	Aves	Accipitridae	0218	<i>Circus assimilis</i>		Spotted Harrier	V,P		1
Animalia	Aves	Accipitridae	0232	<i>Elanus axillaris</i>		Black-shouldered Kite	P		9
Animalia	Aves	Accipitridae	0233	<i>Elanus scriptus</i>		Letter-winged Kite	P		1
Animalia	Aves	Accipitridae	0226	<i>Haliaeetus leucogaster</i>		White-bellied Sea-Eagle	P	C	6
Animalia	Aves	Accipitridae	0228	<i>Haliastur</i>		Whistling Kite	P		15

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records
Animalia	Aves	Accipitridae	0225	<i>Hieraaetus morphnoides</i>		Little Eagle	V,P		8
Animalia	Aves	Accipitridae	0230	<i>Lophoictinia</i>		Square-tailed Kite	V,P,3		1
Animalia	Aves	Accipitridae	0229	<i>Milvus migrans</i>		Black Kite	P		18
Animalia	Aves	Falconidae	0239	<i>Falco berigora</i>		Brown Falcon	P		8
Animalia	Aves	Falconidae	0240	<i>Falco cenchroides</i>		Nankeen Kestrel	P		14
Animalia	Aves	Falconidae	0236	<i>Falco hypoleucos</i>		Grey Falcon	E1,P,2		1
Animalia	Aves	Falconidae	0235	<i>Falco longipennis</i>		Australian Hobby	P		5
Animalia	Aves	Falconidae	0237	<i>Falco peregrinus</i>		Peregrine Falcon	P		6
Animalia	Aves	Falconidae	0238	<i>Falco subniger</i>		Black Falcon	V,P		11
Animalia	Aves	Rallidae	0059	<i>Fulica atra</i>		Eurasian Coot	P		6
Animalia	Aves	Rallidae	0056	<i>Gallinula tenebrosa</i>		Dusky Moorhen	P		13
Animalia	Aves	Rallidae	0046	<i>Gallirallus philippensis</i>		Buff-banded Rail	P		1
Animalia	Aves	Rallidae	0058	<i>Porphyrio</i>		Purple Swamphen	P		6
Animalia	Aves	Rallidae	0049	<i>Porzana fluminea</i>		Australian Spotted Crake	P		1
Animalia	Aves	Rallidae	0050	<i>Porzana pusilla</i>		Baillon's Crake	P		1
Animalia	Aves	Rallidae	0051	<i>Porzana tabuensis</i>		Spotless Crake	P		1
Animalia	Aves	Rallidae	0055	<i>Tribonyx ventralis</i>		Black-tailed Native-	P		1
Animalia	Aves	Otididae	0176	<i>Ardeotis australis</i>		Australian Bustard	E1,P		1
Animalia	Aves	Burhinidae	0174	<i>Burhinus grallarius</i>		Bush Stone-curlew	E1,P		3
Animalia	Aves	Recurvirostridae	0147	<i>Cladorhynchus leucocephalus</i>		Banded Stilt	P		1
Animalia	Aves	Recurvirostridae	0146	<i>Himantopus himantopus</i>		Black-winged Stilt	P		1
Animalia	Aves	Recurvirostridae	0148	<i>Recurvirostra novaehollandiae</i>		Red-necked Avocet	P		1
Animalia	Aves	Charadriidae	0143	<i>Charadrius ruficapillus</i>		Red-capped Plover	P		1
Animalia	Aves	Charadriidae	0144	<i>Elseyornis</i>		Black-fronted Dotterel	P		4
Animalia	Aves	Charadriidae	0133	<i>Vanellus miles</i>		Masked Lapwing	P		7
Animalia	Aves	Charadriidae	0135	<i>Vanellus tricolor</i>		Banded Lapwing	P		2
Animalia	Aves	Pedionomidae	0020	<i>Pedionomus torquatus</i>		Plains-wanderer	E1,P	V	2
Animalia	Aves	Rostratulidae	0170	<i>Rostratula australis</i>		Australian Painted Snipe	E1,P	E	1
Animalia	Aves	Scolopacidae	0168	<i>Gallinago hardwickii</i>		Latham's Snipe	P	C,J,K	1
Animalia	Aves	Scolopacidae	0150	<i>Numenius phaeopus</i>		Whimbrel	P	C,J,K	1
Animalia	Aves	Turnicidae	0019	<i>Turnix pyrrhorthorax</i>		Red-chested Button-quail	P		1
Animalia	Aves	Turnicidae	0014	<i>Turnix varius</i>		Painted Button-quail	P		2
Animalia	Aves	Laridae	0125	<i>Chroicocephalus novaehollandiae</i>		Silver Gull	P		2
Animalia	Aves	Cacatuidae	0269	<i>Cacatua galerita</i>		Sulphur-crested Cockatoo	P		17
Animalia	Aves	Cacatuidae	0271	<i>Cacatua sanguinea</i>		Little Corella	P		1
Animalia	Aves	Cacatuidae	8873	<i>Cacatua sanguinea gymnopsis</i>			P		1
Animalia	Aves	Cacatuidae	0272	<i>Cacatua</i>		Long-billed Corella	P		39
Animalia	Aves	Cacatuidae	0273	<i>Eolophus roseicapillus</i>		Galah	P		46
Animalia	Aves	Cacatuidae	8867	<i>Eolophus roseicapillus</i>			P		1

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Animalia	Aves	Cacatuidae	0270	<i>Lophochroa leadbeateri</i>		Major Mitchell's Cockatoo	V,P,2		1
Animalia	Aves	Cacatuidae	0274	<i>Nymphicus hollandicus</i>		Cockatiel	P		7
Animalia	Aves	Psittacidae	0291	<i>Barnardius zonarius barnardi</i>		[Mallee Ringneck]	P		2
Animalia	Aves	Psittacidae	0258	<i>Glossopsitta concinna</i>		Musk Lorikeet	P		4
Animalia	Aves	Psittacidae	0259	<i>Glossopsitta porphyrocephala</i>		Purple-crowned Lorikeet	V,P,3		2
Animalia	Aves	Psittacidae	0310	<i>Melopsittacus undulatus</i>		Budgerigar	P		1
Animalia	Aves	Psittacidae	0302	<i>Neophema pulchella</i>		Turquoise Parrot	V,P,3		2
Animalia	Aves	Psittacidae	0297	<i>Northiella haematogaster</i>		Blue Bonnet	P		1
Animalia	Aves	Psittacidae	0282	<i>Platycercus</i>		Crimson Rosella	P		2
Animalia	Aves	Psittacidae	0284	<i>Platycercus elegans flaveolus</i>		[Yellow Rosella]	P		38
Animalia	Aves	Psittacidae	0288	<i>Platycercus</i>		Eastern Rosella	P		23
Animalia	Aves	Psittacidae	0277	<i>Polytelis</i>		Superb Parrot	V,P,3	V	23
Animalia	Aves	Psittacidae	0295	<i>Psephotus haematonotus</i>		Red-rumped Parrot	P		28
Animalia	Aves	Cuculidae	0338	<i>Cacomantis flabelliformis</i>		Fan-tailed Cuckoo	P		1
Animalia	Aves	Cuculidae	0337	<i>Cacomantis</i>		Pallid Cuckoo	P		1
Animalia	Aves	Cuculidae	0342	<i>Chalcites basalis</i>		Horsfield's Bronze-Cuckoo	P		4
Animalia	Aves	Strigidae	0246	<i>Ninox connivens</i>		Barking Owl	V,P,3		6
Animalia	Aves	Strigidae	9922	<i>Ninox novaeseelandiae</i>		Southern Boobook	P		4
Animalia	Aves	Tytonidae	9923	<i>Tyto javanica</i>		Eastern Barn Owl	P		9
Animalia	Aves	Tytonidae	0250	<i>Tyto novaehollandiae</i>		Masked Owl	V,P,3		1
Animalia	Aves	Alcedinidae	0319	<i>Ceyx azureus</i>		Azure Kingfisher	P		7
Animalia	Aves	Alcedinidae	0322	<i>Dacelo novaeguineae</i>		Laughing Kookaburra	P		34
Animalia	Aves	Alcedinidae	0326	<i>Todiramphus sanctus</i>		Sacred Kingfisher	P		10
Animalia	Aves	Meropidae	0329	<i>Merops ornatus</i>		Rainbow Bee-eater	P	J	12
Animalia	Aves	Coraciidae	0318	<i>Eurystomus orientalis</i>		Dollarbird	P		3
Animalia	Aves	Climacteridae	8127	<i>Climacteris picumnus victoriae</i>		Brown Treecreeper (eastern subspecies)	V,P		19
Animalia	Aves	Climacteridae	0558	<i>Cormobates leucophaea</i>		White-throated Treecreeper	P		21
Animalia	Aves	Maluridae	0529	<i>Malurus cyaneus</i>		Superb Fairy-wren	P		35
Animalia	Aves	Maluridae	0536	<i>Malurus lamberti</i>		Variiegated Fairy-wren	P		1
Animalia	Aves	Maluridae	0535	<i>Malurus leucopterus</i>		White-winged Fairy-wren	P		1
Animalia	Aves	Maluridae	9038	<i>Malurus sp.</i>		Unidentified Fairy-wren	P		1
Animalia	Aves	Acanthizidae	0486	<i>Acanthiza chrysorrhoa</i>		Yellow-rumped Thornbill	P		28
Animalia	Aves	Acanthizidae	0470	<i>Acanthiza lineata</i>		Striated Thornbill	P		7
Animalia	Aves	Acanthizidae	0471	<i>Acanthiza nana</i>		Yellow Thornbill	P		26
Animalia	Aves	Acanthizidae	0475	<i>Acanthiza pusilla</i>		Brown Thornbill	P		2
Animalia	Aves	Acanthizidae	0484	<i>Acanthiza</i>		Buff-rumped Thornbill	P		7

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Animalia	Aves	Acanthizidae	0481	<i>Acanthiza uropygialis</i>		Chestnut-rumped Thornbill	P		6
Animalia	Aves	Acanthizidae	0466	<i>Aphelocephala leucopsis</i>		Southern Whiteface	P		2
Animalia	Aves	Acanthizidae	0463	<i>Gerygone fusca</i>		Western Gerygone	P		14
Animalia	Aves	Acanthizidae	0488	<i>Sericornis frontalis</i>		White-browed Scrubwren	P		10
Animalia	Aves	Acanthizidae	0465	<i>Smicrornis brevirostris</i>		Weebill	P		34
Animalia	Aves	Pardalotidae	0565	<i>Pardalotus</i>		Spotted Pardalote	P		13
Animalia	Aves	Pardalotidae	0976	<i>Pardalotus striatus</i>		Striated Pardalote	P		30
Animalia	Aves	Meliphagidae	0640	<i>Acanthagenys rufogularis</i>		Spiny-cheeked Honeyeater	P		10
Animalia	Aves	Meliphagidae	0591	<i>Acanthorhynchus tenuirostris</i>		Eastern Spinebill	P		1
Animalia	Aves	Meliphagidae	0638	<i>Anthochaera carunculata</i>		Red Wattlebird	P		1
Animalia	Aves	Meliphagidae	0603	<i>Anthochaera</i>		Regent Honeyeater	E4A,P	E	2
Animalia	Aves	Meliphagidae	0614	<i>Caligavis chrysops</i>		Yellow-faced Honeyeater	P		1
Animalia	Aves	Meliphagidae	0602	<i>Certhionyx variegatus</i>		Pied Honeyeater	V,P		1
Animalia	Aves	Meliphagidae	0641	<i>Entomyzon</i>		Blue-faced	P		17
Animalia	Aves	Meliphagidae	0448	<i>Epthianura</i>		White-fronted Chat	V,P		1
Animalia	Aves	Meliphagidae	0449	<i>Epthianura tricolor</i>		Crimson Chat	P		1
Animalia	Aves	Meliphagidae	0598	<i>Grantiella picta</i>		Painted Honeyeater	V,P		1
Animalia	Aves	Meliphagidae	0613	<i>Lichenostomus fuscus</i>		Fuscous Honeyeater	P		3
Animalia	Aves	Meliphagidae	0622	<i>Lichenostomus ornatus</i>		Yellow-plumed Honeyeater	P		3
Animalia	Aves	Meliphagidae	0625	<i>Lichenostomus penicillatus</i>		White-plumed Honeyeater	P		79
Animalia	Aves	Meliphagidae	0608	<i>Lichenostomus virescens</i>		Singing Honeyeater	P		5
Animalia	Aves	Meliphagidae	0634	<i>Manorina melanocephala</i>		Noisy Miner	P		17
Animalia	Aves	Meliphagidae	0583	<i>Melithreptus brevirostris</i>		Brown-headed Honeyeater	P		18
Animalia	Aves	Meliphagidae	0578	<i>Melithreptus lunatus</i>		White-naped Honeyeater	P		2
Animalia	Aves	Meliphagidae	0646	<i>Philemon citreogularis</i>		Little Friarbird	P		55
Animalia	Aves	Meliphagidae	0645	<i>Philemon corniculatus</i>		Noisy Friarbird	P		24
Animalia	Aves	Meliphagidae	0585	<i>Plectorhyncha lanceolata</i>		Striped Honeyeater	P		2
Animalia	Aves	Meliphagidae	0594	<i>Purnella albifrons</i>		White-fronted Honeyeater	P		4
Animalia	Aves	Meliphagidae	0589	<i>Sugomel niger</i>		Black Honeyeater	P		3
Animalia	Aves	Pomatostomidae	8388	<i>Pomatostomus temporalis temporalis</i>		Grey-crowned Babbler (eastern subspecies)	V,P		15
Animalia	Aves	Neosittidae	0549	<i>Daphoenositta chrysoptera</i>		Varied Sittella	V,P		6
Animalia	Aves	Campephagidae	0423	<i>Coracina maxima</i>		Ground Cuckoo-shrike	P		4
Animalia	Aves	Campephagidae	0424	<i>Coracina novaehollandiae</i>		Black-faced Cuckoo-shrike	P		25

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Animalia	Aves	Campephagi dae	0425	<i>Coracina papuensis</i>		White-bellied Cuckoo- shrike	P		1
Animalia	Aves	Campephagi dae	0430	<i>Lalage sueurii</i>		White-winged Triller	P		4
Animalia	Aves	Pachycephali dae	0408	<i>Colluricincla harmonica</i>		Grey Shrike-thrush	P		27
Animalia	Aves	Pachycephali dae	0416	<i>Falcunculus frontatus frontatus</i>		Eastern Shrike-tit	P		2
Animalia	Aves	Pachycephali dae	0398	<i>Pachycephala pectoralis</i>		Golden Whistler	P		7
Animalia	Aves	Pachycephali dae	0401	<i>Pachycephala rufiventris</i>		Rufous Whistler	P		14
Animalia	Aves	Oriolidae	0671	<i>Oriolus sagittatus</i>		Olive-backed Oriole	P		2
Animalia	Aves	Artamidae	0547	<i>Artamus cyanopterus</i>		Dusky Woodswallow	P		3
Animalia	Aves	Artamidae	0543	<i>Artamus leucorynchus</i>		White-breasted Woodswallow	P		4
Animalia	Aves	Artamidae	0544	<i>Artamus</i>		Masked	P		4
Animalia	Aves	Artamidae	0545	<i>Artamus superciliosus</i>		White-browed Woodswallow	P		4
Animalia	Aves	Artamidae	0700	<i>Cracticus nigrogularis</i>		Pied Butcherbird	P		18
Animalia	Aves	Artamidae	0705	<i>Cracticus tibicen</i>		Australian Magpie	P		38
Animalia	Aves	Artamidae	0702	<i>Cracticus torquatus</i>		Grey Butcherbird	P		2
Animalia	Aves	Artamidae	0694	<i>Strepera graculina</i>		Pied Currawong	P		15
Animalia	Aves	Rhipiduridae	0361	<i>Rhipidura</i>		Grey Fantail	P		22
Animalia	Aves	Rhipiduridae	8447	<i>Rhipidura albiscapa alisteri</i>			P		1
Animalia	Aves	Rhipiduridae	0364	<i>Rhipidura</i>		Willie Wagtail	P		29
Animalia	Aves	Corvidae	0930	<i>Corvus coronoides</i>		Australian Raven	P		25
Animalia	Aves	Corvidae	0954	<i>Corvus mellori</i>		Little Raven	P		11
Animalia	Aves	Monarchidae	0415	<i>Grallina</i>		Magpie-lark	P		31
Animalia	Aves	Monarchidae	9955	<i>Myiagra inquieta</i>		Restless Flycatcher	P		9
Animalia	Aves	Monarchidae	0365	<i>Myiagra rubecula</i>		Leaden Flycatcher	P		2
Animalia	Aves	Corcoracidae	0693	<i>Corcorax melanorhamphos</i>		White-winged Chough	P		27
Animalia	Aves	Corcoracidae	0675	<i>Struthidea cinerea</i>		Apostlebird	P		1
Animalia	Aves	Petroicidae	8367	<i>Melanodryas cucullata cucullata</i>		Hooded Robin (south- eastern form)	V,P		2
Animalia	Aves	Petroicidae	0377	<i>Microeca fascinans</i>		Jacky Winter	P		5
Animalia	Aves	Petroicidae	0380	<i>Petroica boodang</i>		Scarlet Robin	V,P		1
Animalia	Aves	Petroicidae	0381	<i>Petroica</i>		Red-capped Robin	P		10
Animalia	Aves	Petroicidae	0382	<i>Petroica phoenicea</i>		Flame Robin	V,P		4
Animalia	Aves	Cisticolidae	0525	<i>Cisticola exilis</i>		Golden-headed	P		1
Animalia	Aves	Acrocephalid ae	0524	<i>Acrocephalus australis</i>		Australian Reed- Warbler	P		16
Animalia	Aves	Acrocephalid ae	8584	<i>Acrocephalus australis australis</i>			P		1
Animalia	Aves	Megaluridae	0509	<i>Cincloramphus mathewsi</i>		Rufous Songlark	P		2
Animalia	Aves	Megaluridae	0522	<i>Megalurus gramineus</i>		Little Grassbird	P		4
Animalia	Aves	Timaliidae	0574	<i>Zosterops lateralis</i>		Silvereye	P		26
Animalia	Aves	Hirundinidae	0358	<i>Cheramoeca leucosterna</i>		White-backed Swallow	P		6
Animalia	Aves	Hirundinidae	0357	<i>Hirundo neoxena</i>		Welcome Swallow	P		25

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Animalia	Aves	Hirundinidae	0359	<i>Petrochelidon nigricans</i>		Tree Martin	P		6
Animalia	Aves	Turdidae	0991	<i>Turdus merula</i>	*	Eurasian Blackbird			14
Animalia	Aves	Sturnidae	0998	<i>Sturnus tristis</i>	*	Common Myna			1
Animalia	Aves	Sturnidae	0999	<i>Sturnus vulgaris</i>	*	Common Starling			20
Animalia	Aves	Nectariniidae	0564	<i>Dicaeum hirundinaceum</i>		Mistletoebird	P		12
Animalia	Aves	Estrildidae	0662	<i>Neochmia</i>		Red-browed Finch	P		11
Animalia	Aves	Estrildidae	8621	<i>Neochmia temporalis</i>			P		1
Animalia	Aves	Estrildidae	0652	<i>Stagonopleura guttata</i>		Diamond Firetail	V,P		2
Animalia	Aves	Estrildidae	0653	<i>Taeniopygia</i>		Zebra Finch	P		6
Animalia	Aves	Passeridae	0995	<i>Passer domesticus</i>	*	House Sparrow			15
Animalia	Aves	Passeridae	0994	<i>Passer montanus</i>	*	Eurasian Tree			1
Animalia	Aves	Motacillidae	0647	<i>Anthus novaeseelandiae</i>		Australian Pipit	P		1
Animalia	Mammalia	Ornithorhynchidae	1001	<i>Ornithorhynchus anatinus</i>		Platypus	P		3
Animalia	Mammalia	Tachyglossidae	1003	<i>Tachyglossus aculeatus</i>		Short-beaked Echidna	P		1
Animalia	Mammalia	Dasyuridae	1043	<i>Antechinomys laniger</i>		Kultarr	E1,P		1
Animalia	Mammalia	Dasyuridae	1027	<i>Antechinus flavipes</i>		Yellow-footed Antechinus	P		1
Animalia	Mammalia	Dasyuridae	1061	<i>Sminthopsis</i>		Common Dunnart	P		1
Animalia	Mammalia	Vombatidae	1169	<i>Lasiorhinus krefftii</i>		Northern Hairy-nosed Wombat	E4,P	E	1
Animalia	Mammalia	Pseudocheiridae	1129	<i>Pseudocheirus peregrinus</i>		Common Ringtail Possum	P		3
Animalia	Mammalia	Acrobatidae	1147	<i>Acrobates pygmaeus</i>		Feathertail Glider	P		2
Animalia	Mammalia	Phalangeridae	1113	<i>Trichosurus vulpecula</i>		Common Brushtail Possum	P		10
Animalia	Mammalia	Macropodidae	1265	<i>Macropus giganteus</i>		Eastern Grey Kangaroo	P		5
Animalia	Mammalia	Macropodidae	1215	<i>Petrogale penicillata</i>		Brush-tailed Rock-wallaby	E1,P	V	1
Animalia	Mammalia	Macropodidae	1242	<i>Wallabia bicolor</i>		Swamp Wallaby	P		1
Animalia	Mammalia	Pteropodidae	1281	<i>Pteropus scapulatus</i>		Little Red Flying-fox	P		1
Animalia	Mammalia	Molossidae	1324	<i>Austronomus australis</i>		White-striped Freetail-bat	P		5
Animalia	Mammalia	Molossidae	1326	<i>Mormopterus planiceps</i>		Little Mastiff-bat	P		1
Animalia	Mammalia	Vespertilionidae	1349	<i>Chalinolobus gouldii</i>		Gould's Wattled Bat	P		1
Animalia	Mammalia	Vespertilionidae	1351	<i>Chalinolobus morio</i>		Chocolate Wattled Bat	P		1
Animalia	Mammalia	Vespertilionidae	T315	<i>Nyctophilus corbeni</i>		Corben's Long-eared Bat	V,P	V	1
Animalia	Mammalia	Vespertilionidae	1334	<i>Nyctophilus gouldi</i>		Gould's Long-eared Bat	P		2
Animalia	Mammalia	Vespertilionidae	1379	<i>Vespadelus vulturnus</i>		Little Forest Bat	P		1
Animalia	Mammalia	Muridae	1412	<i>Mus musculus</i>	*	House Mouse			2
Animalia	Mammalia	Muridae	1408	<i>Rattus rattus</i>	*	Black Rat			2

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Animalia	Mammalia	Canidae	1532	<i>Vulpes vulpes</i>	*	Fox			3
Animalia	Mammalia	Felidae	1536	<i>Felis catus</i>	*	Cat			1
Animalia	Mammalia	Leporidae	1511	<i>Lepus capensis</i>	*	Brown Hare			5
Animalia	Mammalia	Leporidae	1510	<i>Oryctolagus cuniculus</i>	*	Rabbit			6
Animalia	Mammalia	Equidae	1512	<i>Equus caballus</i>	*	Horse			1
Plantae	Flora	Aizoaceae	6381	<i>Glinus lotoides</i>		Hairy Carpet-weed			1
Plantae	Flora	Aizoaceae	7175	<i>Glinus</i>					1
Plantae	Flora	Aizoaceae	10540	<i>Tetragonia moorei</i>					1
Plantae	Flora	Aizoaceae	7680	<i>Trianthema</i>		Small Hogweed			1
Plantae	Flora	Aizoaceae	6504	<i>Zaleya galericulata</i>		Hogweed			1
Plantae	Flora	Alismataceae	1043	<i>Alisma plantago-aquatica</i>		Water Plantain			1
Plantae	Flora	Amaranthaceae	6478	<i>Alternanthera denticulata</i>		Lesser Joyweed			5
Plantae	Flora	Amaranthaceae	7191	<i>Alternanthera pungens</i>	*	Khaki Weed			1
Plantae	Flora	Amaranthaceae	1051	<i>Amaranthus albus</i>	*	Tumbleweed			2
Plantae	Flora	Amaranthaceae	1055	<i>Amaranthus hybridus</i>	*	Slim Amaranth			1
Plantae	Flora	Amaranthaceae	1062	<i>Amaranthus retroflexus</i>	*	Redroot Amaranth			1
Plantae	Flora	Amaranthaceae	1064	<i>Amaranthus viridis</i>	*	Green Amaranth			1
Plantae	Flora	Amaranthaceae	6599	<i>Ptilotus exaltatus</i> var. <i>exaltatus</i>		Tall Mulla Mulla	P		1
Plantae	Flora	Amaranthaceae	8523	<i>Ptilotus semilanatus</i>		Lambs tails			2
Plantae	Flora	Amaranthaceae	7822	<i>Ptilotus spathulatus</i> f. <i>spathulatus</i>		Pussy-tails			1
Plantae	Flora	Anacardiaceae	1086	<i>Schinus areira</i>	*	Pepper Tree			1
Plantae	Flora	Apiaceae	1109	<i>Daucus</i>		Native Carrot			1
Plantae	Flora	Apiaceae	10681	<i>Eryngium ovinum</i>		Blue Devil			1
Plantae	Flora	Apiaceae	10871	<i>Eryngium</i>		Long Eryngium			1
Plantae	Flora	Apocynaceae	10204	<i>Nerium oleander</i>	*	Oleander			1
Plantae	Flora	Arecaceae	11354	<i>Phoenix canariensis</i>	*	Canary Island Date Palm			1
Plantae	Flora	Asparagaceae	3521	<i>Asparagus officinalis</i>	*	Asparagus			1
Plantae	Flora	Asteraceae	1273	<i>Arctotheca</i>	*	Capeweed			8
Plantae	Flora	Asteraceae	1280	<i>Aster subulatus</i>	*	Wild Aster			2
Plantae	Flora	Asteraceae	10401	<i>Brachyscome basaltica</i> var.		Swamp Daisy			1
Plantae	Flora	Asteraceae	1332	<i>Calocephalus sonderi</i>		Pale Beauty-heads			1
Plantae	Flora	Asteraceae	1340	<i>Calotis erinacea</i>		Tangled Burr-daisy			1
Plantae	Flora	Asteraceae	7929	<i>Calotis scabiosifolia</i> var.					1
Plantae	Flora	Asteraceae	1348	<i>Calotis scapigera</i>		Tufted Burr-daisy			2
Plantae	Flora	Asteraceae	1354	<i>Carduus pycnocephalus</i>	*	Slender Thistle			1
Plantae	Flora	Asteraceae	1362	<i>Cassinia arcuata</i>		Sifton Bush			1
Plantae	Flora	Asteraceae	1384	<i>Centipeda cunninghamii</i>		Common Sneezeweed			3

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Plantae	Flora	Asteraceae	14360	<i>Centipeda minima</i> <i>subsp. minima</i>		spreading sneezeweed			2
Plantae	Flora	Asteraceae	12718	<i>Centipeda</i>					1
Plantae	Flora	Asteraceae	8559	<i>Chrysocephalum</i> <i>apiculatum</i>		Common Everlasting			3
Plantae	Flora	Asteraceae	1400	<i>Cirsium vulgare</i>	*	Spear Thistle			7
Plantae	Flora	Asteraceae	1404	<i>Conyza</i>	*	Flaxleaf Fleabane			3
Plantae	Flora	Asteraceae	10442	<i>Conyza</i>	*	Tall fleabane			2
Plantae	Flora	Asteraceae	1412	<i>Cotula australis</i>		Common Cotula			1
Plantae	Flora	Asteraceae	1413	<i>Cotula bipinnata</i>	*	Ferny Cotula			4
Plantae	Flora	Asteraceae	8634	<i>Craspedia</i>		Common Billy-buttons	P		1
Plantae	Flora	Asteraceae	1427	<i>Cymbonotus</i> <i>preissianus</i>		Austral Bear's Ear			1
Plantae	Flora	Asteraceae	1428	<i>Cynara</i>	*	Cardoon			1
Plantae	Flora	Asteraceae	1433	<i>Dittrichia</i>	*	Stinkwort			2
Plantae	Flora	Asteraceae	7903	<i>Eclipta platyglossa</i>		Yellow Twin-heads			1
Plantae	Flora	Asteraceae	12744	<i>Eriochlamys</i> <i>squamata</i>					2
Plantae	Flora	Asteraceae	9778	<i>Helminthotheca</i> <i>echioides</i>	*	Ox-tongue			2
Plantae	Flora	Asteraceae	1540	<i>Hypochaeris glabra</i>	*	Smooth Catsear			3
Plantae	Flora	Asteraceae	1542	<i>Isoetopsis</i> <i>graminifolia</i>		Grass Cushion			1
Plantae	Flora	Asteraceae	IXIL	<i>Ixiolaena spp.</i>					1
Plantae	Flora	Asteraceae	1550	<i>Lactuca serriola</i>	*	Prickly Lettuce			1
Plantae	Flora	Asteraceae	12049	<i>Leiocarpa</i> <i>panaetioides</i>		Woolly Buttons			2
Plantae	Flora	Asteraceae	12105	<i>Leiocarpa</i>		Woolly Plover-daisy			1
Plantae	Flora	Asteraceae	10182	<i>Leontodon</i> <i>taraxacoides</i> <i>subsp.</i>	*	Lesser Hawkbit			2
Plantae	Flora	Asteraceae	11831	<i>Leptorhynchus</i> <i>squamatus subsp.</i> <i>squamatus</i>					3
Plantae	Flora	Asteraceae	9416	<i>Millotia perpusilla</i>		Tiny Bow-flower			1
Plantae	Flora	Asteraceae	1576	<i>Myriocephalus</i> <i>rhizocephalus</i>		Woolly-heads			1
Plantae	Flora	Asteraceae	1624	<i>Parthenium</i> <i>hysterophorus</i>	*	Parthenium Weed			1
Plantae	Flora	Asteraceae	10155	<i>Pycnosorus</i> <i>chrysanthes</i>		Golden Billy-buttons	P		1
Plantae	Flora	Asteraceae	10163	<i>Pycnosorus</i> <i>thompsonianus</i>			P		2
Plantae	Flora	Asteraceae	1641	<i>Reichardia</i>	*	False Sowthistle			1
Plantae	Flora	Asteraceae	14032	<i>Rhaponticum</i>	*	Creeping Knapweed			1
Plantae	Flora	Asteraceae	8919	<i>Rhodanthe</i> <i>corymbiflora</i>		Small White Sunray			2
Plantae	Flora	Asteraceae	9384	<i>Rhodanthe</i>		Pigmy Sunray			1
Plantae	Flora	Asteraceae	11159	<i>Scorzonera</i>	*				1
Plantae	Flora	Asteraceae	1675	<i>Senecio</i> <i>quadridentatus</i>		Cotton Fireweed			1
Plantae	Flora	Asteraceae	1676	<i>Senecio</i>		Tall Groundsel			2
Plantae	Flora	Asteraceae	1684	<i>Silybum marianum</i>	*	Variiegated Thistle			1
Plantae	Flora	Asteraceae	1690	<i>Sonchus oleraceus</i>	*	Common Sowthistle			5
Plantae	Flora	Asteraceae	1698	<i>Taraxacum</i>	*	Dandelion			3
Plantae	Flora	Asteraceae	7786	<i>Vittadinia</i> <i>cervicularis var.</i>		A Fuzzweed			1
Plantae	Flora	Asteraceae	1711	<i>Vittadinia cuneata</i>		A Fuzzweed			2

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Plantae	Flora	Asteraceae	6992	<i>Vittadinia cuneata</i> <i>var. hirsuta</i>					1
Plantae	Flora	Asteraceae	7069	<i>Vittadinia dissecta</i> <i>var. hirta</i>					1
Plantae	Flora	Asteraceae	1714	<i>Vittadinia gracilis</i>		Woolly New Holland Daisy			2
Plantae	Flora	Asteraceae	1729	<i>Xanthium</i>	*	Bathurst Burr			2
Plantae	Flora	Asteraceae	11380	<i>Xerochrysum viscosum</i>		Sticky Everlasting			1
Plantae	Flora	Azollaceae	9260	<i>Azolla filiculoides</i>		Pacific Azolla			1
Plantae	Flora	Bignoniaceae	8688	<i>Jacaranda mimosifolia</i>	*	Jacaranda			1
Plantae	Flora	Boraginaceae	8707	<i>Buglossoides arvensis</i>	*	Sheepweed			1
Plantae	Flora	Boraginaceae	1751	<i>Echium plantagineum</i>	*	Patterson's Curse			9
Plantae	Flora	Boraginaceae	1761	<i>Heliotropium europaeum</i>	*	Potato Weed			1
Plantae	Flora	Boraginaceae	1772	<i>Plagiobothrys canescens</i>	*	Valley Popcorn Flower			1
Plantae	Flora	Brassicaceae	1790	<i>Brassica tournefortii</i>	*	Mediterranean Turnip			1
Plantae	Flora	Brassicaceae	1794	<i>Capsella bursa-pastoris</i>	*	Shepherd's Purse			1
Plantae	Flora	Brassicaceae	1810	<i>Geococcus pusillus</i>					1
Plantae	Flora	Brassicaceae	1817	<i>Lepidium bonariense</i>	*	Argentine Peppergrass			2
Plantae	Flora	Brassicaceae	13998	<i>Lepidium draba</i>	*	Hoary Cress			1
Plantae	Flora	Brassicaceae	LEPI	<i>Lepidium spp.</i>	*	A Peppergrass			1
Plantae	Flora	Brassicaceae	1835	<i>Menkea australis</i>		Fairy Spectacles			1
Plantae	Flora	Brassicaceae	1846	<i>Rorippa laciniata</i>					1
Plantae	Flora	Brassicaceae	RORI	<i>Rorippa spp.</i>	*				1
Plantae	Flora	Brassicaceae	1853	<i>Sisymbrium irio</i>	*	London Rocket			6
Plantae	Flora	Brassicaceae	1855	<i>Sisymbrium orientale</i>	*	Indian Hedge Mustard			2
Plantae	Flora	Callitricheae	1909	<i>Callitriche stagnalis</i>	*	Common Starwort			1
Plantae	Flora	Campanulaceae	1931	<i>Wahlenbergia fluminalis</i>		River Bluebell			7
Plantae	Flora	Campanulaceae	1933	<i>Wahlenbergia gracilentata</i>		Annual Bluebell			1
Plantae	Flora	Caryophyllaceae	1974	<i>Paronychia brasiliiana</i>	*	Chilean Whitlow Wort, Brazilian			1
Plantae	Flora	Caryophyllaceae	1979	<i>Polycarpon tetraphyllum</i>	*	Four-leaved Allseed			1
Plantae	Flora	Caryophyllaceae	2002	<i>Stellaria angustifolia</i>		Swamp Starwort			2
Plantae	Flora	Caryophyllaceae	2006	<i>Stellaria media</i>	*	Common Chickweed			3
Plantae	Flora	Casuarinaceae	2013	<i>Allocasuarina luehmannii</i>		Bulloak			2

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Plantae	Flora	Casuarinaceae	2018	<i>Allocasuarina verticillata</i>		Drooping Sheoak			2
Plantae	Flora	Casuarinaceae	9289	<i>Casuarina pauper</i>		Black Oak			1
Plantae	Flora	Chenopodiaceae	2056	<i>Atriplex lindleyi</i>		Eastern Flat-top Saltbush			2
Plantae	Flora	Chenopodiaceae	2066	<i>Atriplex pseudocampanulata</i>					2
Plantae	Flora	Chenopodiaceae	2070	<i>Atriplex semibaccata</i>		Creeping Saltbush			5
Plantae	Flora	Chenopodiaceae	2078	<i>Atriplex vesicaria</i>		Bladder Saltbush			1
Plantae	Flora	Chenopodiaceae	2084	<i>Chenopodium album</i>	*	Fat Hen			1
Plantae	Flora	Chenopodiaceae	6931	<i>Chenopodium desertorum</i> subsp. <i>virosum</i>					2
Plantae	Flora	Chenopodiaceae	2097	<i>Chenopodium murale</i>	*	Nettle-leaf Goosefoot			1
Plantae	Flora	Chenopodiaceae	2098	<i>Chenopodium nitrariaceum</i>		Nitre Goosefoot			1
Plantae	Flora	Chenopodiaceae	7294	<i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>					1
Plantae	Flora	Chenopodiaceae	2111	<i>Einadia nutans</i>		Climbing Saltbush			8
Plantae	Flora	Chenopodiaceae	6481	<i>Einadia nutans</i> subsp. <i>linifolia</i>		Climbing Saltbush			2
Plantae	Flora	Chenopodiaceae	2114	<i>Enchylaena tomentosa</i>		Ruby Saltbush			2
Plantae	Flora	Chenopodiaceae	2124	<i>Maireana cheelii</i>		Chariot Wheels	V,P	V	1
Plantae	Flora	Chenopodiaceae	2127	<i>Maireana decalvans</i>		Black Cotton Bush			5
Plantae	Flora	Chenopodiaceae	2128	<i>Maireana enchylaenoides</i>		Wingless Fissure-weed			1
Plantae	Flora	Chenopodiaceae	2140	<i>Maireana pentagona</i>		Hairy Bluebush, Slender Fissure-weed			6
Plantae	Flora	Chenopodiaceae	2161	<i>Rhagodia spinescens</i>		Thorny Saltbush			1
Plantae	Flora	Chenopodiaceae	7923	<i>Salsola kali</i> var. <i>kali</i>		Buckbush			2
Plantae	Flora	Chenopodiaceae	11152	<i>Salsola tragus</i>		Buckbush, Soft Rolpoly, Saltwort			1
Plantae	Flora	Chenopodiaceae	2170	<i>Sclerolaena birchii</i>		Galvanized Burr			2
Plantae	Flora	Chenopodiaceae	2185	<i>Sclerolaena muricata</i>		Black Rolpoly			2
Plantae	Flora	Chenopodiaceae	7570	<i>Sclerolaena muricata</i> var.		Black Rolpoly			1
Plantae	Flora	Chenopodiaceae	7656	<i>Sclerolaena muricata</i> var.		Black Rolpoly			1
Plantae	Flora	Chenopodiaceae	12874	<i>Sclerolaena</i> sp. <i>B</i>					1
Plantae	Flora	Commelinaceae	10508	<i>Tradescantia fluminensis</i>	*	Wandering Jew			1
Plantae	Flora	Crassulaceae	2237	<i>Crassula colorata</i>		Dense Stonecrop			4

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Plantae	Flora	Crassulaceae	7745	<i>Crassula decumbens</i> var. <i>decumbens</i>		Spreading Stonecrop			1
Plantae	Flora	Crassulaceae	2242	<i>Crassula sieberiana</i>		Australian Stonecrop			1
Plantae	Flora	Cucurbitaceae	9436	<i>Citrullus lanatus</i> var. <i>lanatus</i>	*	Wild Melon, Camel Melon, Bitter			1
Plantae	Flora	Cucurbitaceae	11072	<i>Cucumis myriocarpus</i> subsp. <i>leptodermis</i>	*	Paddy Melon			2
Plantae	Flora	Cucurbitaceae	2256	<i>Ecballium elaterium</i>	*	Squirting Cucumber			1
Plantae	Flora	Cucurbitaceae	2264	<i>Zehneria micrantha</i>		Desert Cucumber			1
Plantae	Flora	Cupressaceae	9634	<i>Callitris gracilis</i> subsp. <i>murrayensis</i>		Murray Pine			1
Plantae	Flora	Cyperaceae	2327	<i>Carex inversa</i>		Knob Sedge			5
Plantae	Flora	Cyperaceae	2337	<i>Carex tereticaulis</i>					2
Plantae	Flora	Cyperaceae	CYPE	<i>Cyperus</i> spp.					1
Plantae	Flora	Cyperaceae	2408	<i>Eleocharis acuta</i>					2
Plantae	Flora	Cyperaceae	2421	<i>Eleocharis plana</i>		Flat Spike-sedge			1
Plantae	Flora	Cyperaceae	2422	<i>Eleocharis pusilla</i>					2
Plantae	Flora	Euphorbiaceae	8560	<i>Chamaesyce drummondii</i>		Caustic Weed			3
Plantae	Flora	Euphorbiaceae	2721	<i>Euphorbia peplus</i>	*	Petty Spurge			1
Plantae	Flora	Euphorbiaceae	6900	<i>Euphorbia tannensis</i> subsp.					1
Plantae	Flora	Fabaceae (Caesalpinioideae)	14255	<i>Senna artemisioides</i> subsp. <i>X coriacea</i>					2
Plantae	Flora	Fabaceae (Caesalpinioideae)	8494	<i>Senna artemisioides</i> subsp. <i>zygophylla</i>					1
Plantae	Flora	Fabaceae (Faboideae)	10674	<i>Cullen tenax</i>		Emu-foot			1
Plantae	Flora	Fabaceae (Faboideae)	2842	<i>Dillwynia cinerascens</i>					1
Plantae	Flora	Fabaceae (Faboideae)	2862	<i>Glycyrrhiza acanthocarpa</i>		Native Liquorice			3
Plantae	Flora	Fabaceae (Faboideae)	2906	<i>Lotus australis</i>		Australian Trefoil			1
Plantae	Flora	Fabaceae (Faboideae)	2922	<i>Medicago polymorpha</i>	*	Burr Medic			1
Plantae	Flora	Fabaceae (Faboideae)	2923	<i>Medicago praecox</i>	*	Small-leaved Burr Medic			2
Plantae	Flora	Fabaceae (Faboideae)	2924	<i>Medicago sativa</i>	*	Lucerne			1
Plantae	Flora	Fabaceae (Faboideae)	2926	<i>Medicago truncatula</i>	*	Barrel Medic			7
Plantae	Flora	Fabaceae (Faboideae)	3028	<i>Robinia pseudoacacia</i>	*	Black Locust			1
Plantae	Flora	Fabaceae (Faboideae)	3048	<i>Swainsona murrayana</i>		Slender Darling Pea	V,P	V	1
Plantae	Flora	Fabaceae (Faboideae)	8538	<i>Swainsona sericea</i>		Silky Swainson-pea	V,P		2
Plantae	Flora	Fabaceae (Faboideae)	3072	<i>Trifolium angustifolium</i>	*	Narrow-leaved Clover			2

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Plantae	Flora	Fabaceae (Faboideae)	3073	<i>Trifolium arvense</i>	*	Haresfoot Clover			3
Plantae	Flora	Fabaceae (Faboideae)	3083	<i>Trifolium ornithopodioides</i>	*	Birds-foot Trefoil			1
Plantae	Flora	Fabaceae (Faboideae)	TRIF	<i>Trifolium spp.</i>	*	A Clover			2
Plantae	Flora	Fabaceae (Faboideae)	3091	<i>Trifolium tomentosum</i>	*	Woolly Clover			2
Plantae	Flora	Fabaceae (Faboideae)	8794	<i>Vicia sativa subsp. sativa</i>	*	Common Vetch			1
Plantae	Flora	Fabaceae (Mimosoideae)	3699	<i>Acacia acinacea</i>		Gold-dust Wattle			1
Plantae	Flora	Fabaceae (Mimosoideae)	3710	<i>Acacia baileyana</i>		Cootamundra Wattle			1
Plantae	Flora	Fabaceae (Mimosoideae)	3761	<i>Acacia decora</i>		Western Silver Wattle			1
Plantae	Flora	Fabaceae (Mimosoideae)	3843	<i>Acacia oswaldii</i>		Miljee			1
Plantae	Flora	Fabaceae (Mimosoideae)	3848	<i>Acacia pendula</i>		Boree			1
Plantae	Flora	Fabaceae (Mimosoideae)	3872	<i>Acacia salicina</i>		Cooba			1
Plantae	Flora	Fumariaceae	9367	<i>Fumaria muralis subsp. muralis</i>	*	Wall Fumitory			1
Plantae	Flora	Geraniaceae	3141	<i>Erodium cicutarium</i>	*	Common Crowfoot			3
Plantae	Flora	Geraniaceae	3142	<i>Erodium crinitum</i>		Blue Crowfoot			1
Plantae	Flora	Geraniaceae	3145	<i>Erodium</i>	*	Musky Crowfoot			1
Plantae	Flora	Geraniaceae	EROI	<i>Erodium spp.</i>	*	Crowfoot			1
Plantae	Flora	Goodeniaceae	3181	<i>Goodenia fascicularis</i>		Mallee Goodenia			1
Plantae	Flora	Goodeniaceae	3183	<i>Goodenia glauca</i>		Pale Goodenia			1
Plantae	Flora	Goodeniaceae	3185	<i>Goodenia gracilis</i>					1
Plantae	Flora	Goodeniaceae	3193	<i>Goodenia pinnatifida</i>		Scrambles Eggs			1
Plantae	Flora	Goodeniaceae	3216	<i>Velleia paradoxa</i>					1
Plantae	Flora	Haloragaceae	3249	<i>Haloragis aspera</i>		Rough Raspwort			1
Plantae	Flora	Haloragaceae	7455	<i>Haloragis glauca f. glauca</i>					2
Plantae	Flora	Haloragaceae	7123	<i>Myriophyllum caput-medusae</i>		Cat-tail			1
Plantae	Flora	Hydrocharitaceae	3269	<i>Elodea canadensis</i>	*	Elodea			1
Plantae	Flora	Hypoxidaceae	7493	<i>Hypoxis glabella var. glabella</i>		Tiny Star			2
Plantae	Flora	Iridaceae	10862	<i>Moraea setifolia</i>	*	Thread Iris			4
Plantae	Flora	Iridaceae	3304	<i>Romulea minutiflora</i>	*	Small-flowered Onion Grass			8

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Plantae	Flora	Iridaceae	7477	<i>Romulea rosea</i> <i>var. australis</i>	*	Onion Grass			1
Plantae	Flora	Juncaceae	3313	<i>Juncus amabilis</i>					4
Plantae	Flora	Juncaceae	3315	<i>Juncus aridicola</i>		Tussock Rush			2
Plantae	Flora	Juncaceae	3330	<i>Juncus flavidus</i>					1
Plantae	Flora	Juncaceae	3335	<i>Juncus ingens</i>		Giant Rush			1
Plantae	Flora	Juncaceae	3344	<i>Juncus radula</i>					1
Plantae	Flora	Juncaceae	JUNC	<i>Juncus spp.</i>		A Rush			4
Plantae	Flora	Juncaceae	3348	<i>Juncus</i> <i>subsecundus</i>		Finger Rush			2
Plantae	Flora	Lamiaceae	3371	<i>Ajuga australis</i>		Austral Bugle			1
Plantae	Flora	Lamiaceae	3381	<i>Marrubium vulgare</i>	*	White Horehound			3
Plantae	Flora	Lamiaceae	3383	<i>Mentha australis</i>		River Mint			1
Plantae	Flora	Lamiaceae	3384	<i>Mentha diemenica</i>		Slender Mint			2
Plantae	Flora	Lamiaceae	3387	<i>Mentha</i>		Native Pennyroyal			2
Plantae	Flora	Lamiaceae	3427	<i>Prostanthera</i> <i>rotundifolia</i>		Round-leaved Mint-bush			1
Plantae	Flora	Lamiaceae	3453	<i>Teucrium</i> <i>racemosum</i>		Grey Germander			4
Plantae	Flora	Lemnaceae	7689	<i>Spirodela punctata</i>					2
Plantae	Flora	Lobeliaceae	1922	<i>Pratia concolor</i>		Poison Pratia			1
Plantae	Flora	Lomandraceae	6511	<i>Lomandra filiformis</i> <i>subsp. coriacea</i>		Wattle Matt-rush			1
Plantae	Flora	Lomandraceae	LOMA	<i>Lomandra spp.</i>		Mat-rush			1
Plantae	Flora	Loranthaceae	7497	<i>Amyema</i> <i>linophyllum subsp.</i>					1
Plantae	Flora	Loranthaceae	3620	<i>Muellerina</i> <i>eucalyptoides</i>					1
Plantae	Flora	Lythraceae	3623	<i>Lythrum</i>		Hyssop Loosestrife			1
Plantae	Flora	Malvaceae	3657	<i>Malva parviflora</i>	*	Small-flowered			1
Plantae	Flora	Malvaceae	MALV	<i>Malva spp.</i>	*	Mallow			1
Plantae	Flora	Malvaceae	3664	<i>Sida corrugata</i>		Corrugated Sida			2
Plantae	Flora	Malvaceae	SIDA	<i>Sida spp.</i>	*				2
Plantae	Flora	Marsileaceae	8803	<i>Marsilea</i> <i>drummondii</i>		Common Nardoo			2
Plantae	Flora	Martyniaceae	8935	<i>Ibicella lutea</i>	*	Yellow-flowered Devil's Claw			1
Plantae	Flora	Myoporaceae	8602	<i>Eremophila debilis</i>		Amulla			3
Plantae	Flora	Myoporaceae	9442	<i>Myoporum</i> <i>platycarpum subsp.</i> <i>platycarpum</i>					1
Plantae	Flora	Myrtaceae	6360	<i>Eucalyptus</i> <i>camaldulensis</i>		River Red Gum			10
Plantae	Flora	Myrtaceae	4114	<i>Eucalyptus</i> <i>largiflorens</i>		Black Box			15
Plantae	Flora	Myrtaceae	4125	<i>Eucalyptus</i> <i>melliodora</i>		Yellow Box			2
Plantae	Flora	Myrtaceae	4127	<i>Eucalyptus</i> <i>microcarpa</i>		Western Grey Box			1
Plantae	Flora	Nyctaginaceae	6753	<i>Boerhavia</i> <i>coccinea</i>		Tarvine			2
Plantae	Flora	Nyctaginaceae	6841	<i>Boerhavia dominii</i>		Tarvine			2
Plantae	Flora	Onagraceae	4330	<i>Epilobium</i>					2
Plantae	Flora	Oxalidaceae	4613	<i>Oxalis corniculata</i>	*	Creeping Oxalis			1
Plantae	Flora	Oxalidaceae	4621	<i>Oxalis perennans</i>					8

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Plantae	Flora	Oxalidaceae	4622	<i>Oxalis pes-caprae</i>	*	Soursob			2
Plantae	Flora	Papaveraceae	4637	<i>Papaver dubium</i>	*	Longhead Poppy			1
Plantae	Flora	Papaveraceae	4638	<i>Papaver hybridum</i>	*	Rough Poppy			2
Plantae	Flora	Phormiaceae	3542	<i>Dianella revoluta</i>		Blueberry Lily			1
Plantae	Flora	Phyllanthaceae	2748	<i>Phyllanthus lacunarius</i>					1
Plantae	Flora	Pittosporaceae	11202	<i>Pittosporum angustifolium</i>		Butterbush			1
Plantae	Flora	Plantaginaceae	6996	<i>Plantago coronopus</i> subsp.	*				1
Plantae	Flora	Plantaginaceae	4690	<i>Plantago cunninghamii</i>		Sago-weed			1
Plantae	Flora	Plantaginaceae	4691	<i>Plantago debilis</i>		Shade Plantain			1
Plantae	Flora	Plantaginaceae	4694	<i>Plantago gaudichaudii</i>		Narrow Plantain			1
Plantae	Flora	Poaceae	4735	<i>Alopecurus geniculatus</i>	*	Marsh Foxtail			1
Plantae	Flora	Poaceae	6842	<i>Amphibromus nervosus</i>		Swamp Wallaby Grass			2
Plantae	Flora	Poaceae	10384	<i>Austrostipa aristiglumis</i>		Plains Grass			1
Plantae	Flora	Poaceae	10376	<i>Austrostipa nodosa</i>		A Speargrass			2
Plantae	Flora	Poaceae	AUSO	<i>Austrostipa</i> spp.		A Speargrass			1
Plantae	Flora	Poaceae	4780	<i>Avena fatua</i>	*	Wild Oats			3
Plantae	Flora	Poaceae	AVEN	<i>Avena</i> spp.	*	Oats			1
Plantae	Flora	Poaceae	4804	<i>Bromus arenarius</i>		Sand Brome			1
Plantae	Flora	Poaceae	4806	<i>Bromus diandrus</i>	*	Great Brome			1
Plantae	Flora	Poaceae	4810	<i>Bromus</i>	*	Madrid Brome			1
Plantae	Flora	Poaceae	4813	<i>Bromus rubens</i>	*	Red Brome			1
Plantae	Flora	Poaceae	BROM	<i>Bromus</i> spp.	*	A Brome			2
Plantae	Flora	Poaceae	4833	<i>Chloris truncata</i>		Windmill Grass			2
Plantae	Flora	Poaceae	6540	<i>Cynodon dactylon</i>		Common Couch			1
Plantae	Flora	Poaceae	7178	<i>Dactyloctenium radulans</i>		Button Grass			1
Plantae	Flora	Poaceae	6937	<i>Digitaria</i>	*	Crab Grass			2
Plantae	Flora	Poaceae	4920	<i>Diplachne fusca</i>		Brown Beetle Grass			1
Plantae	Flora	Poaceae	7607	<i>Echinochloa colona</i>		Awnless Barnyard Grass			1
Plantae	Flora	Poaceae	4923	<i>Echinochloa crus-galli</i>	*	Barnyard Grass			1
Plantae	Flora	Poaceae	9330	<i>Echinochloa esculenta</i>	*	Japanese Millet			1
Plantae	Flora	Poaceae	6818	<i>Echinochloa microstachya</i>	*	Prickly Barnyard Grass			1
Plantae	Flora	Poaceae	4936	<i>Ehrharta calycina</i>	*	Perennial Veldtgrass			1
Plantae	Flora	Poaceae	4937	<i>Ehrharta erecta</i>	*	Panic Veldtgrass			1
Plantae	Flora	Poaceae	4938	<i>Ehrharta longiflora</i>	*	Annual Veldtgrass			2
Plantae	Flora	Poaceae	4940	<i>Eleusine tristachya</i>	*	Goose Grass			1
Plantae	Flora	Poaceae	4945	<i>Enneapogon nigricans</i>		Niggerheads			2
Plantae	Flora	Poaceae	6721	<i>Enteropogon acicularis</i>		Curly Windmill Grass			4
Plantae	Flora	Poaceae	6722	<i>Enteropogon ramosus</i>		Curly Windmill Grass			2

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records
Plantae	Flora	Poaceae	4952	<i>Eragrostis curvula</i>	*	African Lovegrass			1
Plantae	Flora	Poaceae	4955	<i>Eragrostis elongata</i>		Clustered Lovegrass			1
Plantae	Flora	Poaceae	4997	<i>Glyceria declinata</i>	*	Sweetgrass			1
Plantae	Flora	Poaceae	7871	<i>Hemarthria uncinata</i> var.					1
Plantae	Flora	Poaceae	5012	<i>Hordeum</i>	*	Barley Grass			5
Plantae	Flora	Poaceae	5013	<i>Hordeum marinum</i>	*	Sea Barley Grass			1
Plantae	Flora	Poaceae	HORD	<i>Hordeum</i> spp.	*	A Barley Grass			1
Plantae	Flora	Poaceae	11388	<i>Lachnagrostis filiformis</i>					1
Plantae	Flora	Poaceae	5032	<i>Lolium perenne</i>	*	Perennial Ryegrass			13
Plantae	Flora	Poaceae	5033	<i>Lolium rigidum</i>	*	Wimmera Ryegrass			2
Plantae	Flora	Poaceae	5055	<i>Panicum effusum</i>		Hairy Panic			2
Plantae	Flora	Poaceae	7773	<i>Panicum laevinode</i>		Pepper Grass			5
Plantae	Flora	Poaceae	5077	<i>Paspalidium constrictum</i>		Knottybutt Grass			1
Plantae	Flora	Poaceae	5082	<i>Paspalidium jubiflorum</i>		Warrego Grass			5
Plantae	Flora	Poaceae	5086	<i>Paspalum</i>	*	Paspalum			2
Plantae	Flora	Poaceae	5096	<i>Pennisetum clandestinum</i>	*	Kikuyu Grass			1
Plantae	Flora	Poaceae	5100	<i>Pennisetum</i>	*	Feathertop			1
Plantae	Flora	Poaceae	PHAA	<i>Phalaris</i> spp.	*				1
Plantae	Flora	Poaceae	5122	<i>Poa bulbosa</i>	*	Bulbous Poa			1
Plantae	Flora	Poaceae	5138	<i>Poa pratensis</i>	*	Kentucky Bluegrass			1
Plantae	Flora	Poaceae	5145	<i>Polypogon monspeliensis</i>	*	Annual Beardgrass			1
Plantae	Flora	Poaceae	5148	<i>Pseudoraphis spinescens</i>		Spiny Mudgrass			2
Plantae	Flora	Poaceae	7878	<i>Rostraria cristata</i>	*	Annual Cat's Tail			1
Plantae	Flora	Poaceae	14304	<i>Rytidosperma bipartitum</i>		Wallaby Grass			1
Plantae	Flora	Poaceae	14307	<i>Rytidosperma duttonianum</i>		Brown-back Wallaby Grass			1
Plantae	Flora	Poaceae	14309	<i>Rytidosperma fulvum</i>		Wallaby Grass			1
Plantae	Flora	Poaceae	14322	<i>Rytidosperma setaceum</i>		Small-flowered Wallaby-grass			4
Plantae	Flora	Poaceae	RYTI	<i>Rytidosperma</i> spp.					2
Plantae	Flora	Poaceae	5156	<i>Schismus barbatus</i>	*	Arabian Grass			1
Plantae	Flora	Poaceae	5169	<i>Setaria verticillata</i>	*	Whorled Pigeon			1
Plantae	Flora	Poaceae	5185	<i>Stenotaphrum secundatum</i>	*	Buffalo Grass			1
Plantae	Flora	Poaceae	5234	<i>Triticum aestivum</i>	*	Wheat			1
Plantae	Flora	Poaceae	5242	<i>Vulpia myuros</i>	*	Rat's Tail Fescue			1
Plantae	Flora	Poaceae	13475	<i>Walwhalleya</i>					1
Plantae	Flora	Polygonaceae	14542	<i>Duma florulenta</i>		Lignum			6
Plantae	Flora	Polygonaceae	14544	<i>Duma horrida</i> subsp. <i>horrida</i>					2
Plantae	Flora	Polygonaceae	7568	<i>Persicaria decipiens</i>		Slender Knotweed			1
Plantae	Flora	Polygonaceae	5281	<i>Persicaria hydropiper</i>		Water Pepper			2
Plantae	Flora	Polygonaceae	5285	<i>Persicaria prostrata</i>		Creeping Knotweed			3
Plantae	Flora	Polygonaceae	POLG	<i>Polygonum</i> spp.	*				2

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records
Plantae	Flora	Polygonaceae	5296	<i>Rumex brownii</i>		Swamp Dock			3
Plantae	Flora	Polygonaceae	5298	<i>Rumex crispus</i>	*	Curled Dock			2
Plantae	Flora	Polygonaceae	5304	<i>Rumex tenax</i>		Shiny Dock			4
Plantae	Flora	Pontederiaceae	5305	<i>Eichhornia crassipes</i>	*	Water Hyacinth			1
Plantae	Flora	Portulacaceae	5324	<i>Portulaca oleracea</i>		Pigweed			1
Plantae	Flora	Proteaceae	5344	<i>Banksia marginata</i>		Silver Banksia			1
Plantae	Flora	Proteaceae	5426	<i>Hakea</i>		Hooked Needlewood			2
Plantae	Flora	Ranunculaceae	5508	<i>Ranunculus lappaceus</i>		Common Buttercup			1
Plantae	Flora	Ranunculaceae	5511	<i>Ranunculus muricatus</i>	*	Sharp Buttercup			1
Plantae	Flora	Ranunculaceae	5516	<i>Ranunculus pentandrus</i>					1
Plantae	Flora	Ranunculaceae	5524	<i>Ranunculus sceleratus</i>	*	Celery Buttercup			1
Plantae	Flora	Ranunculaceae	5525	<i>Ranunculus sessiliflorus</i>		Small-flowered Buttercup			3
Plantae	Flora	Ranunculaceae	9640	<i>Ranunculus sessiliflorus</i> var. <i>pilulifer</i>		Common Buttercup			1
Plantae	Flora	Resedaceae	5530	<i>Reseda luteola</i>	*	Weld			1
Plantae	Flora	Rosaceae	5646	<i>Rubus ulmifolius</i>	*	Blackberry			1
Plantae	Flora	Rubiaceae	5653	<i>Asperula conferta</i>		Common Woodruff			2
Plantae	Flora	Rubiaceae	5679	<i>Galium aparine</i>	*	Goosegrass			1
Plantae	Flora	Santalaceae	5859	<i>Exocarpos aphyllus</i>		Leafless Ballart			2
Plantae	Flora	Scrophulariaceae	5982	<i>Mimulus gracilis</i>		Slender Monkey-flower			1
Plantae	Flora	Solanaceae	6034	<i>Datura wrightii</i>	*	Hairy Thornapple			2
Plantae	Flora	Solanaceae	6040	<i>Lycium ferocissimum</i>	*	African Boxthorn			3
Plantae	Flora	Solanaceae	14009	<i>Physalis hederifolia</i>	*	Sticky Cape			2
Plantae	Flora	Solanaceae	6081	<i>Solanum esuriiale</i>		Quena			4
Plantae	Flora	Solanaceae	9211	<i>Solanum</i>	*	Apple of Sodom			1
Plantae	Flora	Solanaceae	6091	<i>Solanum nigrum</i>	*	Black-berry			3
Plantae	Flora	Solanaceae	6101	<i>Solanum pseudocapsicum</i>	*	Madeira Winter Cherry			1
Plantae	Flora	Tamaricaceae	11180	<i>Tamarix ramosissima</i>	*	Tamarisk			1
Plantae	Flora	Typhaceae	TYPH	<i>Typha</i> spp.	*				1
Plantae	Flora	Urticaceae	6238	<i>Urtica urens</i>	*	Small Nettle			2
Plantae	Flora	Verbenaceae	11134	<i>Phyla canescens</i>	*	Lippia			1
Plantae	Flora	Verbenaceae	6256	<i>Verbena bonariensis</i>	*	Purpletop			1
Plantae	Flora	Verbenaceae	10717	<i>Verbena gaudichaudii</i>		Verbena			1
Plantae	Flora	Verbenaceae	6259	<i>Verbena officinalis</i>	*	Common Verbena			2
Plantae	Flora	Zygophyllaceae	7655	<i>Tribulus terrestris</i>	*	Cat-head			3
Plantae	Flora	Zygophyllaceae	6357	<i>Zygophyllum iodocarpum</i>		Violet Twinleaf			1



Appendix I

Flora and Fauna Likelihood Assessments



Flora and fauna likelihood assessments

1.0 Flora, Fauna and Threatened Ecological Community Likelihood of Occurrence Assessments

The likelihood of occurrence assessments for threatened flora, fauna and ecological communities were based on:

- previous records of threatened species from the database searches
- habitat data collected during the field survey
- the current (known) distribution range of these species
- the presence and condition of suitable habitat occurring within the locality.



The criteria to assess the likelihood of threatened flora, fauna and migratory species is presented in Table 1.



Table 1 Likelihood assessment criteria



Likelihood	Assessment Criteria
Present	<ul style="list-style-type: none">- Species observed within the Project Site or recently recorded.- Preferred habitat is present within the Project Site.
High	<ul style="list-style-type: none">- Species has been recently recorded within the Project Site or adjoining landscape.- The Project site contains the species' preferred habitat and is likely to support a population of the species.
Moderate	<ul style="list-style-type: none">- Species has not been recorded within the Project Site but previously recorded in the surrounding landscape.- The Project Site contains the species' preferred habitat although generally it is in a poor or modified condition.
Low	<ul style="list-style-type: none">- Species has not been recorded within the Project Site, and has not been observed in the surrounding landscape or at least not recently.- Some habitat is present in the Project Site although it is generally of poor or modified condition.- The species may infrequently visit the Project Site, or overfly the Project Site, but would not reside, roost or otherwise depend on habitats within the Project Site.
Unlikely	<ul style="list-style-type: none">- Species has not been recorded within the Project Site or observed in the surrounding landscape, and there is no habitat available within the Project site to suggest the species may occur even on a temporary basis.



The likelihood assessments for threatened flora, fauna, and TECs are presented in Tables 2 – 4.

Table 2 Threatened flora likelihood assessment

Species	Life-Strategy ¹	Flowering	Distribution and Habitat	Image	Likelihood of Occurrence
ASTERACEAE					
Mossgiel Daisy <i>Brachyscome papillosa</i> TSC: Vulnerable EPBC: Vulnerable	P	June-Dec	<p><i>Brachyscome papillosa</i> has been recorded from Mossgiel to Urana, in south-western NSW, from sites at Jerilderia, Hay Plain, Willandra Lakes, and north to Ivanhoe. A western outlier occurs at Byrnedale Station, north of Menindee (TSSC, 2008a).</p> <p>This species is known to occur on clay soil plains in association with <i>Atriplex vesicaria</i> and <i>Maireana aphylla</i>, grasslands and in <i>Eucalyptus macrocarpa</i> – <i>Callitris</i> sp., woodlands (TSSC, 2008a).</p>	 <p>(Australian National Botanic Gardens, 2015)</p>	<p>Low</p> <p>A record for this species has been recorded within the surrounding landscape, however the record date is from 1949 (ALA, 2015). Appropriate habitat for this species exist onsite, although it is in a 'Poor' condition.</p>
BRASSICACEAE					
Winged Peppergrass <i>Lepidium monoplacoides</i> TSC: Endangered EPBC: Endangered	A	Sept-Jan	<p><i>Lepidium monoplacoides</i> is distributed on the inland plains of south-eastern Australia, occurring from northern NSW to western Victoria (Mavromihalis, 2010a).</p> <p>This species occurs in open, sparsely vegetated sites on heavy clay, or clay-loam soil. Plant communities include grasslands, wetlands and floodplain woodlands, and chenopod shrublands dominated by <i>Atriplex</i>, <i>Maireana</i> and <i>Nitraria</i>. <i>Lepidium monoplacoides</i> occurs in association with a range of herbs and grasses including <i>Rytidosperma</i> spp., and <i>Austrostipa</i> spp. (Mavromihalis, 2010a).</p>	 <p>(Mavromihalis, 2010a)</p>	<p>Low</p> <p>Project site has natural grassland on clay-loam soils. Grazing is a major threat to this species, as it is highly palatable; the grazing history of the site reduces the quality of habitat for this species. A record for this species has been identified within the area, however the record date is from 1945 (ALA, 2015).</p>

Species	Life-Strategy ¹	Flowering	Distribution and Habitat	Image	Likelihood of Occurrence
CHENOPODIACEAE					
Chariot Wheels <i>Maireana cheelii</i> TSC: Vulnerable EPBC: Vulnerable	P		The current distribution of <i>Maireana cheelii</i> is in the western Riverina bioregion, between Hay and Deniliquin, extending as far west as Moulamein, and possibly as far east as Jerilderie and Morundah. It also occurs in north-west Victoria (Mavromihalis, 2010b). <i>Maireana cheelii</i> commonly occurs in chenopod and grassland communities on heavy clay soils. Common species include <i>Maireana pentagona</i> , <i>Maireana excavata</i> , <i>Nitraria billardierei</i> , <i>Austrostipa nodosa</i> , <i>Erodium crinitum</i> and <i>Hyalosperma semisterlie</i> . In NSW the species appears to favour heavier grey soil supporting <i>Atriplex vesicaria</i> . It often occur (Mavromihalis, 2010b)	 (Mavromihalis, 2010b)	Low A majority of the site occurs on red clay-loam soils, which is not the favoured soil type for this species in NSW, and the common species co-occurring with this species are not present within the Project site. However records for this species have been identified within the area, however they were from the 1930 and 1940s (ALA, 2015).
FABACEAE					
Slender Darling Pea <i>Swainsona murrayana</i> TSC: Vulnerable EPBC: Vulnerable	P	Sept-Dec	<i>Swainsona murrayana</i> occurs from South Australia through south-west Victoria and central NSW to south east Queensland (DECC 2005, CPBR 2008 cited in (TSSC, 2008b). This species is found in grassland, herbland and open Black-box woodland in association with <i>Maireana</i> spp., <i>Rytidosperma</i> spp., and <i>Austrostipa</i> spp. It grows in heavy grey or brown clay loam, or red cracking clays (TSSC, 2008b).	 Photo by David Parker	Low Appropriate habitat occurs within the Project site; however the condition of the habitat is 'Poor'. A record of this species has been located close to the Project site, however it was from 1973 (ALA, 2015).

Species	Life-Strategy ¹	Flowering	Distribution and Habitat	Image	Likelihood of Occurrence
FABACEAE					
Silky Swainson-pea <i>Swainsona sericea</i> TSC: Vulnerable	P	Sept-Nov	In NSW, <i>Swainsona sericea</i> has been recorded from the northern to the southern tablelands and further inland on the slopes and plains (OEH, 2015). <i>Swainsona sericea</i> is found in natural temperate grasslands, box-gum woodlands and sometimes in association with <i>Callitris</i> spp. Its habitat on the plains is unknown (OEH, 2015).	 (Australian National Botanic Gardens, 2015)	Low Its habitat type on the plains is unknown. There are records for this species in the areas, however they are from the 1930s and 1970s (ALA, 2015).
ORCHIDACEAE					
Rigid Spider Orchid <i>Caladenia tensa</i> EPBC: Endangered	PG	Sept-Nov	<i>Caladenia tensa</i> is widespread in and surrounding the Little Western Desert in western Victoria, and known from southeast South Australia (Todd, 2000). This species is known to occur in Callitris pine/Yellow gum woodland and mallee on sands and sandy loams (Todd, 2000).	 Photo by Glen Rudolph	Unlikely No appropriate habitat within the Project site. This this species has not been previously recorded from NSW.

Species	Life-Strategy ¹	Flowering	Distribution and Habitat	Image	Likelihood of Occurrence
POACEAE					
Spear Grass <i>Austrostipa metatoris</i> TSC: Vulnerable EPBC: Vulnerable	P	Flowers in response to rain (likely Sept-Nov)	<p><i>Austrostipa metatoris</i> occurs in NSW, along the Murray Valley near Balranald and the central-western slopes near Lake Cargelligo (TSSC, 2008c).</p> <p>This species grows in sandy areas of the Murray Valley, habitats including sandhills, sand ridges, undulating plains and flat open mallee country, with red to red-brown clay-loam to sandy-loam soils. Common species include <i>Eucalyptus populnea</i>, <i>E. intertexta</i>, <i>Callitris glaucophylla</i>, <i>Casuarina cristata</i> and <i>Dodonaea viscosa</i> (TSSC, 2008c).</p> <p>Note: opposite photo is of closely related species <i>Austrostipa eremophila</i>.</p>	 <p>(Simon & Alfonso, 2011)</p>	<p>Unlikely</p> <p>No appropriate habitat within the Project site, and no records for the area.</p>
Spear Grass <i>Austrostipa wakoolica</i> TSC: Endangered EPBC: Endangered	P	Flowers in response to rain (likely Sept-Nov)	<p><i>Austrostipa wakoolica</i> occurs within the floodplains of the Murray River tributaries of central-western and south-western NSW (TSSC, 2014).</p> <p>This species grows in open woodland on grey silty clay or sandy loam, in association with <i>Callitris glaucophylla</i>, <i>Eucalyptus microcarpa</i>, <i>Eucalyptus populnea</i>, <i>Austrostipa eremophila</i>, <i>Austrodanthonia eriantha</i>, <i>Einadia nutans</i>, <i>Hyalosperma glutinosum</i> subsp. <i>glutinosum</i> and <i>Crassula</i> species (TSSC, 2014)</p>	 <p>(OEH, 2015)</p>	<p>Unlikely</p> <p>No appropriate habitat within the Project site, and no records for the area.</p>

¹ Life Strategy: P=Perennial, PG = Perennial Geophyte, A = Annual

Table 3 Threatened and migratory fauna likelihood assessment

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
MAMMALS					
<i>Antechinomys laniger</i> Kultarr		E	Open arid, treeless plains and claypans, gibber, sandy desert (Menkhorst & Knight, 2004). Shelters in tree hollows or stumps, soil cracks, saltbush and spinifex tussocks and animal burrows (OEH, 2015).	Historic record from 1883 located 6 km from Project Site	Unlikely Project Site does not support suitable habitat for this species.
<i>Lasiorhinus krefftii</i> Northern Hairy-nosed Wombat	E	Presumed Extinct in NSW	Once widespread in NSW. Deniliquin population believed to have become extinct in early 1900s (OEH, 2015).	Historic record from 1884 located 5.5 km from Project Site	Unlikely Project Site does not support suitable habitat for this species.
<i>Nyctophilus corbeni</i> South-eastern long-eared bat	V	V	The distribution of <i>Nyctophilus corbeni</i> includes south-eastern Australia primarily through the Murray-Darling Basin and the western slopes of the Great Dividing Range. The habitat of eastern long-eared bat comprises primarily a range of woodland vegetation types but also includes open forests and vine thickets (Churchill, 2008). This species is typically considered an "inland" species and is a bat of forests and woodlands, heavily dependent on tree hollow habitat in which it roosts (Churchill, 2008).	Species recorded within 20 km of site (1988) & PMST	Unlikely Project Site does not support suitable habitat for this species.
<i>Petrogale penicillata</i> Brush-tailed rock wallaby	V	E	Inhabits rock piles and cliffs with numerous crevices and ledges in vegetation ranging from rainforest to dry sclerophyll forest.	Historic record within 25 km of the site (1911)	Unlikely Project Site does not support any habitat for this species.
<i>Phascogale tapoatafa</i> Brush-tailed phascogale		V	Prefers open forest and woodland with sparse ground cover, but historically utilized habitats ranging from rainforest to the fringe of the mallee. Nests in tree hollows.	Species has been recorded within 8.5 km of the site (1989)	Unlikely Project Site does not support suitable extensive woodland habitat for this species.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
MAMMALS					
<i>Phascolarctos cinereus</i> Koala	V	V	Sclerophyll forest and woodland on foothill plains and riverine forests in central NSW and north-central Victoria (Menkhorst & Knight, 2004).	1989 & PMST	Unlikely Project Site does not support suitable extensive woodland habitat for this species.
BIRDS					
<i>Anthochaera phrygia</i> Regent honeyeater	E & Mi	CE	The range of the regent honeyeater previously extended throughout south eastern Australia, from Adelaide in South Australia to roughly Dalby in Queensland, and inland around 300 km to the western foothills of the Great Dividing Range (Garnett & Crowley, 2000; Menkhorst, 1999). The species no longer occurs in South Australia or western Victoria, and within its extant range, the regent honeyeater is patchily distributed, and occurs only at low densities (Oliver, 1998a). Regent honeyeaters are strongly associated with box-ironbark eucalypt associations, and appear to prefer wetter more fertile areas, such as broad river valleys, creek flats and lower slopes, within this vegetation community (Menkhorst, 1999). A large proportion of these forest types have been cleared for agriculture, leaving only patches of natural vegetation in a predominantly agricultural landscape. These remnants are frequently located on the least fertile sites and have been heavily harvested for timber in the past. Riparian she-oak (<i>Casuarina cunninghamiana</i>), and the associated mistletoe, also appears to be important, particularly in years when flowering is poor in the surrounding eucalypt woodlands (Oliver, 1998b).	PMST	Unlikely Project Site does not support suitable habitat for this species.
<i>Apus pacificus</i> Fork-tailed swift	Mi		Aerial over a wide range of habitats, from inland to coast; spring-summer non-breeding migrant.	PMST	Low May fly over site occasionally.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Ardea alba</i> Great egret	Mi		Freshwater and brackish wetlands and watercourses, intertidal mudflats, inland lakes, swamps and rivers; also farm dams, irrigation drainages and artificial wetlands.	PMST	Low May occasionally visit dam to north-east of site but no breeding habitat present.
<i>Ardea ibis</i> Cattle egret	Mi		Freshwater wetlands and watercourses, pastures and croplands, especially where drainage is poor. Occasionally also tidal flats and estuaries.	PMST	Low May occasionally forage in pastures but no suitable breeding habitat present.
<i>Ardeotis australis</i> Australian Bustard		E	Open grassland, grassy woodland, occasionally pastoral land and crops (Simpson, 2004). Occasional vagrants are still seen as far east as western slopes and riverine plain but breeding restricted to north-west NSW.	Species has been recorded within 1 km of the site (2008)	Low May very occasionally visit to forage in pastures.
<i>Botaurus poiciloptilus</i> Australasian bittern	E	E	Occurs mainly in densely vegetated freshwater wetlands and, rarely, in estuaries or tidal wetlands. Favours wetlands with tall dense vegetation, where it forages in still, shallow water up to 0.3 m deep, often at the edges of pools or waterways, or from platforms or mats of vegetation over deep water. Prefers permanent and seasonal freshwater habitats, particularly those dominated by sedges, rushes and/or reeds (e.g. <i>Phragmites</i> , <i>Cyperus</i> , <i>Eleocharis</i> , <i>Juncus</i> , <i>Typha</i> , <i>Baumea</i> , <i>Bolboschoenus</i>) or cutting grass (<i>Gahnia</i>) growing over muddy or peaty substrate.	Species has been recorded within 20 km of the site (2009) & PMST	Unlikely Project Site does not support suitable habitat for this species.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Burhinus grallarius</i> Bush stone-curlew		E	Open forests and woodlands with a sparse grassy ground layer and fallen timber.	Species has been recorded within 2.5 km of the site (2008)	Low Project Site does not support extensive woodland habitat.
<i>Calidris ferruginea</i> Curlew Sandpiper		E	Coast of NSW, especially Hunter estuary and occasionally Murray-Darling basin freshwater wetlands, and sometimes inland.	Species has been recorded within 5.5 km of the site (2005)	Unlikely Project Site does not support suitable habitat for this species.
<i>Certhionyx variegates</i> Pied honeyeater		V	Arid habitat, flowering shrubs, especially Mulga and mallee, spinifex and eucalypt woodlands. Feeds on nectar of emu-bushes, also mistletoes, saltbush berries, seeds and insects.	Species has been recorded within 7.5 km of the site (2006)	Unlikely Project Site does not support suitable habitat for this species.
<i>Circus assimilis</i> Spotted harrier		V	Open grassland, open grassy woodlands, crops, open shrublands and occasionally heathland or scrublands and foraging over open water.	Species has been recorded within 4 km of the site (2011)	Low Project Site habitat is unsuitable for breeding but species could hunt over dam to north-east of site.
<i>Climacteris picumnus</i> Brown tree creeper		V	Prefers open eucalypt woodland, often along watercourses and drainages, typically lacking a dense understorey but with substantial fallen timber and logs. Sometimes also margins of wooded areas. Forages on tree trunks and on or near ground.	Species has been recorded within 6 km of the site (2009)	Low Project Site does not support extensive woodland habitat.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Daphoenositta chrysoptera</i> Varied Sittella		V	Sclerophyll forest, woodland, inhabits most of mainland Australia except treeless deserts and open grasslands (Simpson, 2004; OEH, 2015).	Species has been recorded within 7 km of the site (2013)	Unlikely Project Site does not support suitable habitat for this species.
<i>Epthianura albifrons</i> White-fronted Chat		V	Low vegetation in saline coastal and inland areas; crops (Simpson, 2004).	Species has been recorded within 3.5 km of the site (2007)	Low Project Site supports some foraging habitat but unlikely to support suitable nesting habitat.
<i>Falco hypoleucos</i> Grey falcon		E	Lightly timbered plains, woodland and watercourses in arid areas; occasionally occurs nearer to coast as rare visitor.	Species has not been recorded within 10 km of the site since 1955	Unlikely Project Site does not support suitable habitat for this species.
<i>Falco subniger</i> Black Falcon		V	Woodland, scrub, shrubland and grasslands in arid and semi-arid zones (Simpson, 2004).	Species has been recorded within 7.5 km of the site (2009)	Low May fly over/hunt occasionally.
<i>Gallinago hardwickii</i> Latham's snipe	Mi		Wet grasslands and pastures, open and wooded swamps; spring-summer non-breeding migrant.	PMST	Unlikely Project Site does not support suitable habitat for this species.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Glossopsitta pusilla</i> Little lorikeet		V	Tall open forest, woodland, orchards, parks and street trees (Simpson, 2004). Isolated flowering trees in open country also used.	Species has been recorded within 6.5 km of the site (2007)	Low Project Site does not support extensive woodland habitat.
<i>Grantiella picta</i> Painted honeyeater		V	Open box-ironbark forests, eucalypt and casuarina woodlands and well vegetated watercourses, particularly where trees are infested with mistletoe; mainly spring-summer migrant to south-eastern Australia.	Species has been recorded within 4.5 km of the site (2005)	Unlikely Project Site does not support suitable habitat for this species.
<i>Glossopsitta porphyrocephala</i> Purple-crowned lorikeet		V	Dry eucalypt forests, woodlands and shrublands and mallee, also parks and suburban gardens. In NSW it is uncommon with scattered records in box-ironbark woodlands, river red gums and mallee (OEH, 2015).	Species has been recorded within 5.5 km of the site (2013)	Low Species may occasionally forage in flowering box trees.
<i>Grus rubicunda</i> Brolga		V	Largely associated with ephemeral freshwater and brackish wetlands, grasslands, floodplains, irrigated pastures and saltmarsh.	Species has been recorded within 6.5 km of the site (2008)	Low Species may occasionally forage when areas periodically inundated.
<i>Haliaeetus leucogaster</i> White-bellied sea eagle	Mi		Occupies all coastal areas extending inland through main waterways, coastal islands, and coastal lakes and along some inland rivers. It forages primarily for fish over large areas of open water.	Species has been recorded within 6 km of the site (1979) & PMST	Unlikely Project Site does not support suitable habitat for this species.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Hieraaetus morphnoides</i> Little eagle		V	Most open forest, woodland and scrub types; open agricultural landscapes (Simpson, 2004).	Species has been recorded within 3.5 km of the site (2014)	Low Species may hunt over Project Site
<i>Hirundapus caudacutus</i> White-throated needletail	Mi		Aerial, mainly eastern Australia often associated with coastal and mountain regions; spring-summer non-breeding migrant.	PMST	Unlikely Species may fly over site occasionally.
<i>Lathamus discolor</i> Swift parrot	E	E	Breeds in Tasmania, late spring-summer; occurs as non-breeding migrant to mainland south-eastern Australia mainly autumn-early spring. Generally prefers Box-Ironbark forests and woodlands inland of the Great Dividing Range; sometimes other forests and woodlands in coastal and sub-coastal areas.	PMST	Low Species may occasionally forage in flowering box trees.
<i>Lophochroa leadbeateri</i> Major Mitchell's cockatoo		V	Singly, in pairs or small flocks in arid eucalypt, mulga, casuarina or native pine woodlands and shrublands of arid and semi-arid areas; occasionally in saltbush and grasslands adjacent to woodlands. Often near fresh water; require large hollow trees for breeding.	Species has been recorded within 6 km of the site (1995)	Low Project Site may support some foraging habitat but scattered trees not suitable for breeding.
<i>Lophoictinia isura</i> Square-tailed kite		V	Primarily found within 250 km of the coast and shows a preference for timbered watercourses. A canopy specialist, it primarily hunts over open forest, woodlands and mallee communities that are rich in passerines, especially honeyeaters, as well as over adjacent heaths and other low scrubby habitats and in wooded towns.	Species has been recorded within 5 km of the site (1983)	Unlikely Species may fly over site occasionally.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Melanodryas cucullata cucullata</i> Hooded robin		V	Lowlands and foothills. Inhabit a range of vegetation, particularly with fallen timber and logs, including open eucalypt forests and box-ironbark woodlands, mallee and mulga woodlands, cypress pine woodlands, mallee heaths with scattered trees and often clearings adjacent to woodlands and forests.	Species has been recorded within 8.5 km of the site (1994)	Unlikely Project Site does not support suitable habitat for this species.
<i>Merops ornatus</i> Rainbow bee-eater	Mi		Occur in many wooded habitats with an annual rainfall of less than 800 mm, often along vegetated watercourses and cuttings or banks along watercourses.	Species has been recorded within 6 km of the site (2005) & PMST	Unlikely Project Site does not support suitable habitat for this species.
<i>Myiagra cyanoleuca</i> Satin Flycatcher	Mi		Mainly in wet forests and dense woodlands, particularly with tall canopy of eucalypts with an understorey of tea-trees and wattles along streams. Seasonal visitor (mainly spring) to drier inland woodlands, coastal areas and occasionally gardens and parklands.	PMST	Unlikely Project Site does not support suitable habitat for this species.
<i>Neophema pulchella</i> Turquoise parrot		V	Inhabits arid to semi-arid areas within mallee and acacia (Mulga) scrublands/open woodlands with spinifex and saltbush ground covers. Occurs in both recently burnt and older growth mallee. Known to occur within the Murray Local Land Services (LLS) region.	Species has been recorded within 7.5 km of the site (1998)	Low Species may occasionally forage below box trees.
<i>Ninox connivens</i> Barking owl		V	Open forests and woodlands on lowlands and foothills, including box-ironbark forest, riparian woodlands and treed watercourses; occasionally wooded farmlands.	Species has been recorded within 5.5 km of the site (1998)	Unlikely Project Site does not support suitable habitat for this species.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Numenius phaeopus</i> Whimbrel	Mi		Coastal lakes, estuaries, tidal mudflats and sandflats, mangroves and saltmarshes; occasionally fresh or brackish lakes near coast; mainly spring-summer non-breeding migrant.	Species has been recorded within 8 km of the site (1985)	Unlikely Project Site does not support suitable habitat for this species
<i>Oxyura australis</i> Blue-billed duck		V	Well vegetated freshwater swamps, large dams, lakes. Typically on more open waters in winter.	Species has been recorded within 3.5 km of the site (2005)	Low Species may occasionally visit dam to the north-east of Project Site in winter months.
<i>Pachycephala inornata</i> Gilberts whistler		V	Occurs in a range of NSW habitats with a dense shrub layer, especially mallee shrublands, but also box-ironbark woodlands, Cypress Pine, Belah woodlands and River red Gum woodlands along the Murray, Edwards and Wakool Rivers (OEH, 2015).	Species has been recorded within 7 km of the site (2005)	Unlikely Project Site does not support suitable habitat for this species
<i>Pandion cristatus</i> Eastern Osprey	Mi		Coastal areas.	PMST	Unlikely Project Site does not support suitable habitat for this species.
<i>Pedionomus torquatus</i> Plains-wanderer	V, -		Low, open native grasslands, typically with a short sward with extensive inter-tussock spaces and high diversity of small herbs; sometimes in unimproved pastures or crops. Most known local populations of this species occur in private native grasslands which have low-level grazing combined with some degree of exposed ground. This species is sensitive to disturbance and management of native habitat areas are considered critical to its persistence. Threatening processes that accompany human activity such as introduced predators are known to have a significant impact on the species.	Species has been recorded within 2.5 km of the site (2011) & PMST	Moderate Suitable habitat are present within the Project Site.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Petroica boodang</i> Scarlet robin		V	Commonly found in eucalypt woodland and forest from sea level to 1000 m, particularly the more open habitats with grassy and shrubby understories.	Species has been recorded within 5 km of the site (1994)	Unlikely Project Site does not support suitable habitat for this species.
<i>Petroica phoenicea</i> Flame robin		V	Broad coastal band around the south-east corner of the Australian mainland, from southern Queensland to just west of the South Australian border. Cropped paddocks, parkland near woodland, nests in low open forests, roosts in dense scrub, citrus orchards and small flocks disperse in autumn-winter (Simpson & Day, 2004).	Species has been recorded within 7.5 km of the site (2007)	Low Species may occasionally forage in grasslands at edge of Project Site and near scattered mature trees with shrubs and fence lines.
<i>Plegadis falcinellus</i> Glossy ibis	Mi		Mainly margins of freshwater wetlands and nearby grasslands and pastures; sometimes estuaries and brackish lakes. Mainly spring-summer breeding migrant to south-eastern Australia.	Species recorded within 5 km of the site (1995)	Unlikely Project Site does not contain suitable habitat.
<i>Polytelis swainsonii</i> Superb parrot	V	V	River Red Gum, Black Box and other eucalypt woodlands and timbered watercourses; sometimes in pastures, stubbles, clearings and wooded farmland and often killed on roads when feeding on spilt grain.	Species has been recorded within 1.5 km of the site (2011) and PMST	Low Species may occasionally forage in flowering box trees but scattered trees in Project Site isolated from nearby open woodland areas.

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Pomatostomus temporalis temporalis</i> Grey-crowned babbler (eastern subspecies)		V	Inland open forests, woodlands and scrublands, particularly with an open shrub layer, little ground cover and plenty of fallen timber and leaf litter, including along roadsides and around better vegetated farms. Serious declines in settled areas of south-eastern Australia.	Species has been recorded within 8 km of the site (2008)	Unlikely Scattered trees isolated and not connected to roadside trees or open woodland areas making habitat unfavourable
<i>Rostratula australis</i> Australian painted snipe	E & Mi	E	This species is found in wet environments, either with mud or covered with water, which favour its primary food resources. The species is omnivorous, feeding on seeds, plant material and invertebrates. The decline of the Australian Painted Snipe appears to be linked to the loss of habitat and degradation of environmental attributes of preferred habitats (i.e. wetting/drying/flooding and littoral zone destruction) within the Murray Darling Basin which is thought to contain historic core breeding areas. Depending upon the localities of wetlands habitats, the species may temporarily use human altered environments for feeding. However these areas are unlikely to be utilised as breeding sites because of their size, presence of introduced predator pressure from foxes, cats, and dogs, and dynamics (ephemeral vs. permanent) of wetland for breeding purposes.	Species recorded within 4.5 km of the site (1992) & PMST.	Unlikely Project Site does not contain suitable habitat
<i>Stagonopleura guttata</i> Diamond firetail		V	Open grassy eucalypt or cypress pine woodlands, acacia shrublands and edges of farmland or grassland close to wooded or lightly timbered areas. Often in wooded areas close to watercourses.	Species has been recorded within 7 km of the site (2005)	Low Species may occasionally forage in grasslands at edge of Project Site and near scattered mature trees with shrubs and fencelines

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
BIRDS					
<i>Stictonetta naevosa</i> Freckled duck		V	Large, well vegetated swamps and wetlands, including ephemeral open lakes when inundated.	Species has been recorded within 3.5 km of the site (2005)	Low Species may occasionally visit dam to the north-east of Project Site in non-breeding/drought periods
<i>Tyto novaehollandiae</i> Masked Owl		V	Inhabits forests, woodlands, timbered waterways and sometimes open country on the fringe of these areas. Also inhabit caves. Found in a band around coastal Australia, generally not more than 300 km inland.	Species has been recorded historically within 5 km of the site (1955)	Unlikely Project Site does not support suitable extensive woodland habitat for this species.
FISH					
<i>Bidyanus bidyanus</i> Silver Perch	CE		Rivers, lakes and reservoirs, preferring in or below fast-flowing waters and rapids/races and usually forming aggregations near the surface. Water temperatures ranging from 2°C to 35°C with optimal between 23-28°C.	PMST	Unlikely Project Site does not support suitable habitat for this species
<i>Craterocephalus fluviatilis</i> Murray hardyhead	V		Occurs in still and slow-flowing waters including billabongs, lakes and margins and backwaters of lowland rivers.	PMST	Unlikely Project Site does not support suitable habitat for this species

Species	EPBC Act status ¹	TSC Act status ¹	Ecology	Most recent record /PMST Results	Likelihood of Occurrence
FISH					
<i>Maccullochella peelii peelii</i> Murray cod	V		Small clear, rocky, upland streams with riffle and pool structure on the upper western slopes of the Great Dividing Range to large, meandering, slow flowing, often silty rivers in the alluvial lowland reaches of the Murray Darling Basin.	PMST	Unlikely Project Site does not support suitable habitat for this species
<i>Macquaria australasica</i> Macquarie Perch	E		Deep, rocky holes with considerable cover and flowing water over unsilted cobble and gravel substrate.	PMST	Unlikely Project Site does not support suitable habitat for this species.
AMPHIBIANS					
<i>Litoria raniformis</i> Growling grass frog	V	E	Permanent lakes, swamps, dams, offline creek pools, and lagoons or very wet areas in woodland and shrubland; often in waterbodies with dense standing (e.g. Eleocharis., Juncus, Typha, Bolboschoenus) and floating vegetation (e.g. Triglochin, Potamogeton).	PMST	Unlikely Project site does not support suitable breeding habitat, potential aquatic foraging habitat is present to the north-east and Project Site grasslands could act as terrestrial habitat.

¹ CE=Critically Endangered, E = Endangered, V = Vulnerable, Mi = Migratory

Table 4 Threatened Ecological Community likelihood assessment

Threatened Ecological Community	EPBC Act Status	Community Description	Likelihood of Occurrence
White box-yellow box-Blakely's red gum grassy woodland and derived native grassland.	Critically Endangered	<p>White box-yellow box-Blakely's red gum community occurs as either woodland or derived grassland. The tree species white box (<i>Eucalyptus albens</i>), yellow box (<i>E. melliodora</i>) and Blakely's red gum (<i>E. blakelyi</i>) dominate the community where a tree layer occurs. Sites dominated by other tree species that do not have the above tree species as co-dominants are not considered part of the ecological community (TSSC, 2006).</p> <p>Intact sites contain a high diversity of plant species (> 400 spp.), with most of these being grass and herb species in the ground layer. The ground layer includes grasses, sedges, peas, daisies and lilies, with dominant grasses including Kangaroo grass (<i>Themeda australis</i>), snow grass (<i>Poa sieberiana</i>), wallaby grasses (<i>Rytidosperma</i> spp.), and spear-grasses (<i>Austrostipa</i> spp.) (TSSC, 2006).</p>	<p>Unlikely</p> <p>None of the dominant tree species defining the box gum woodland are, or were, present within the Project Site. In addition, where trees have been cleared (e.g. derived native grassland) the species diversity of the understorey has to be at least twelve native understorey species (forbs, shrubs, ferns, grasses), and at least one being an important species (e.g. kangaroo grass, orchids) (TSSC, 2006). The species richness of native species at the best site was eleven, and none of these species were important species. The derived grassland identified across the site is in a 'Poor' condition, and has been subjected to multiple past disturbances including grazing, cropping and irrigation.</p>
Natural grasslands of the Murray Valley Plains	Critically Endangered	<p>Natural grasslands of the Murray Valley plains are characterised by perennial tussock grasses of the species <i>Rytidosperma</i> spp., <i>Austrostipa</i> spp. and <i>Enteropogon ramosus</i>. A herbland/forbland may occur in areas where grasses are sparse, or grade into an open grassy shrubland with low chenopod shrubs (DSE 2004 cited in (TSSC, 2012a)). Perennial herbs include <i>Arthropodium</i> spp., <i>Bulbine</i> spp., <i>Calotis</i> spp., <i>Chrysocephalum</i> spp., <i>Ptilotus</i> spp., <i>Sida</i> spp. and <i>Swainsonii</i> spp. (TSSC, 2012a).</p> <p>Trees and large shrubs are absent or sparse (< 10% cover). Where trees and shrubs are present they may include umbrella wattle (<i>Acacia oswaldii</i>), weeping myall (<i>A. pendula</i>), buloke (<i>Allocasuarina luehmannii</i>) and <i>Eucalyptus</i> spp. (TSSC, 2012a).</p>	<p>Unlikely</p> <p>The grassland onsite is derived native grasslands, being formed after the clearing of a woody over storey. The Murray Valley Plains grassland is a natural grassland community, and not derived from other vegetation types (TSSC, 2012a).</p> <p>In addition, the grassland patch should contain at least as many, if not more, of the indicator species listed in 'Table A' of the listing advice, compared to the species in 'Table B' of the listing advice. Table B represents species more typical of derived native grasslands, than natural grasslands (TSSC, 2012a). The grassland sites within the Project Site identified only two species from Table A, and five species from Table B, therefore indicating the Project Site represents derived native grasslands.</p>

Threatened Ecological Community	EPBC Act Status	Community Description	Likelihood of Occurrence
Seasonal Herbaceous wetlands (freshwater) of the temperate lowlands Plains	Critically Endangered	<p>Seasonal herbaceous wetlands are generally treeless and dominated by a herbaceous ground layer, often with a large graminoid component. The species present are characteristic of wetter environments, and are typically absent or uncommon in adjoining dryland grasslands and woodlands. Typical species include <i>Amphibromus</i> spp., <i>Carex tereticaulis</i>, <i>Deyeuxia</i> spp., <i>Glyceria</i> spp., <i>Lachnagrostis</i> spp., <i>Poa labillardieri</i> and <i>Rytidosperma duttonianum</i> (TSSC, 2012b).</p> <p>Trees and shrubs are generally sparse, but when present are often confined to fringes, or occur as emergents within wetland. Larger woody species that may be present include <i>Eucalyptus camaldulensis</i>, <i>E. ovata</i>, <i>E. largiflorens</i>, <i>Allocasuarina luehmannii</i> or <i>Muehlenbeckia florulenta</i> (TSSC, 2012b).</p>	<p>Unlikely</p> <p>No seasonal herbaceous wetlands with the characteristics wetland species identified in the listing advice are present within the Project Site.</p>
Buloke woodlands of the Riverina and Murray-Darling Depression Bioregions	Endangered	<p>Buloke woodlands are generally characterised as woodland or open woodland with a well-developed ground stratum that is usually grassy, but also includes many subshrubs and herbs. Buloke woodlands are characterised by the buloke tree (<i>Allocasuarina luehmannii</i>), but slender pine and grey box may be structurally dominant (ESSS, 2000).</p> <p>The composition of the ground stratum varies considerably among component communities. Native grasses often include wallaby grasses, <i>Danthonia</i> spp., and spear grasses, <i>Stipa</i> spp. Exotic grasses, which are frequently abundant, include <i>Lolium rigidum</i>, and several <i>Bromus</i> spp. Native subshrubs and herbs may include <i>Einadia nutans</i>, <i>Senecio pinnatifolius</i>, <i>Sida corrugata</i>, <i>Vittadinia</i> spp., <i>Convolvulus remotus</i>, and <i>Maireana enchylaenoides</i>. Exotic herbs may include <i>Trifolium</i> spp., <i>Silene apetala</i>, <i>Chondrilla juncea</i>, and <i>Lepidium africanum</i> (ESSS, 2000).</p>	<p>Unlikely</p> <p>No buloke (<i>Allocasuarina luehmannii</i>) woodland is present within the Project Site.</p>

Threatened Ecological Community	EPBC Act Status	Community Description	Likelihood of Occurrence
Grey Box (<i>Eucalyptus microcarpa</i>) grassy woodlands and derived native grasslands of South-eastern Australia	Endangered	<p>Grey box (<i>Eucalyptus microcarpa</i>) grassy woodland community typically ranges from woodland to open forest community with a canopy dominated by <i>E. microcarpa</i>. Other canopy species that may be present include <i>Allocasuarina luehmannii</i>, <i>Callitris glaucophylla</i>, <i>Eucalyptus camaldulensis</i>, <i>E. conica</i> and <i>E. melliodora</i> (TSSC, 2010).</p> <p>The understorey typically has a moderately dense to sparse shrub and ground layer of perennial and annual native forbs and graminoids, dominated by tussock grasses. Common ground layer species include <i>Austrodanthonia</i> spp., <i>Austrostipa</i> spp., <i>Elymus</i> spp., <i>Enteropogon</i> spp., <i>Dianella</i> spp. and <i>Lomandra</i> spp. Chenopods may also be present in the ground layer and include <i>Einadia hastata</i>, <i>E. nutans</i> subsp. <i>nutans</i>, <i>Enchylaena tomentosa</i>, <i>Maireana enchylaenoides</i> and <i>Sclerolaena diacantha</i> (TSSC, 2010).</p>	<p>Unlikely</p> <p>Grey box (<i>Eucalyptus microcarpa</i>) is not present within the Project Site, which is the species that characterises this community.</p>
Weeping Myall Woodlands	Endangered	<p>Weeping myall woodlands range from an open woodland to woodland (4-12 m) dominated by weeping myall (<i>Acacia pendula</i>), generally as monotypic stands. Other species that may occur include rosewood (<i>Alectryon oleifolius</i> subsp. <i>elongatus</i>); poplar box (<i>Eucalyptus populnea</i>); or black box (<i>Eucalyptus largiflorens</i>) (TSSC, 2008d).</p> <p>The understorey often includes an open layer of shrubs above an open ground layer of grasses and herbs, though the ecological community can exist naturally either as a shrubby or a grassy woodland. In the southern part of the distribution, chenopods, such as saltbushes, native cotton bushes, bluebushes, goosefoots and copperburrs, were originally an important component of the understorey. As chenopods are generally highly palatable, they have largely disappeared in areas that have been grazed by stock and/or feral animals for substantial periods of time (TSSC, 2008d).</p>	<p>Unlikely</p> <p>Weeping myall (<i>Acacia pendula</i>) is not present within the Project Site, which is the species that characterises this community.</p>

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Appendix J

Flora and Fauna Field Survey Results



Flora and fauna field survey results

1.0 Flora Field Sampling Methods

A flora field survey was undertaken by AECOM on the 1 and 2 June 2015 in accordance with the Office of Environment and Heritage (OEH) field survey methods. The purpose of this survey was to describe the terrestrial flora and vegetation within the Project Site. The site was traversed and the vegetation sampled at seven locations. Three detailed grassland sites were sampled, as well as two rapid grassland sites. A further two detailed woodland cover transects were established in each of the two woodland patches identified within the Project Site.

The three detailed grassland sites covered a plot area of 50 x 10 m, with 10, 1 m x 1 m quadrats established along the tape at 5 m intervals to record species cover abundance. The following information was recorded at each of these sites:

- Site name and location using hand-held global positioning system (Global Positioning System [GPS])
- Photos
- Landform and soil descriptions
- Vegetation structural descriptions using modified Specht (1970)
- General site description, observed disturbance factors and vegetation condition
- List of all vascular flora species within the 50 x 10 m plot
- Cover % (Foliage Projective Cover) of species within the 10, 1 x 1 m plots (0.001 ha)
- Cover % for bare and litter within the 10, 1 x 1 m plots (0.001 ha).

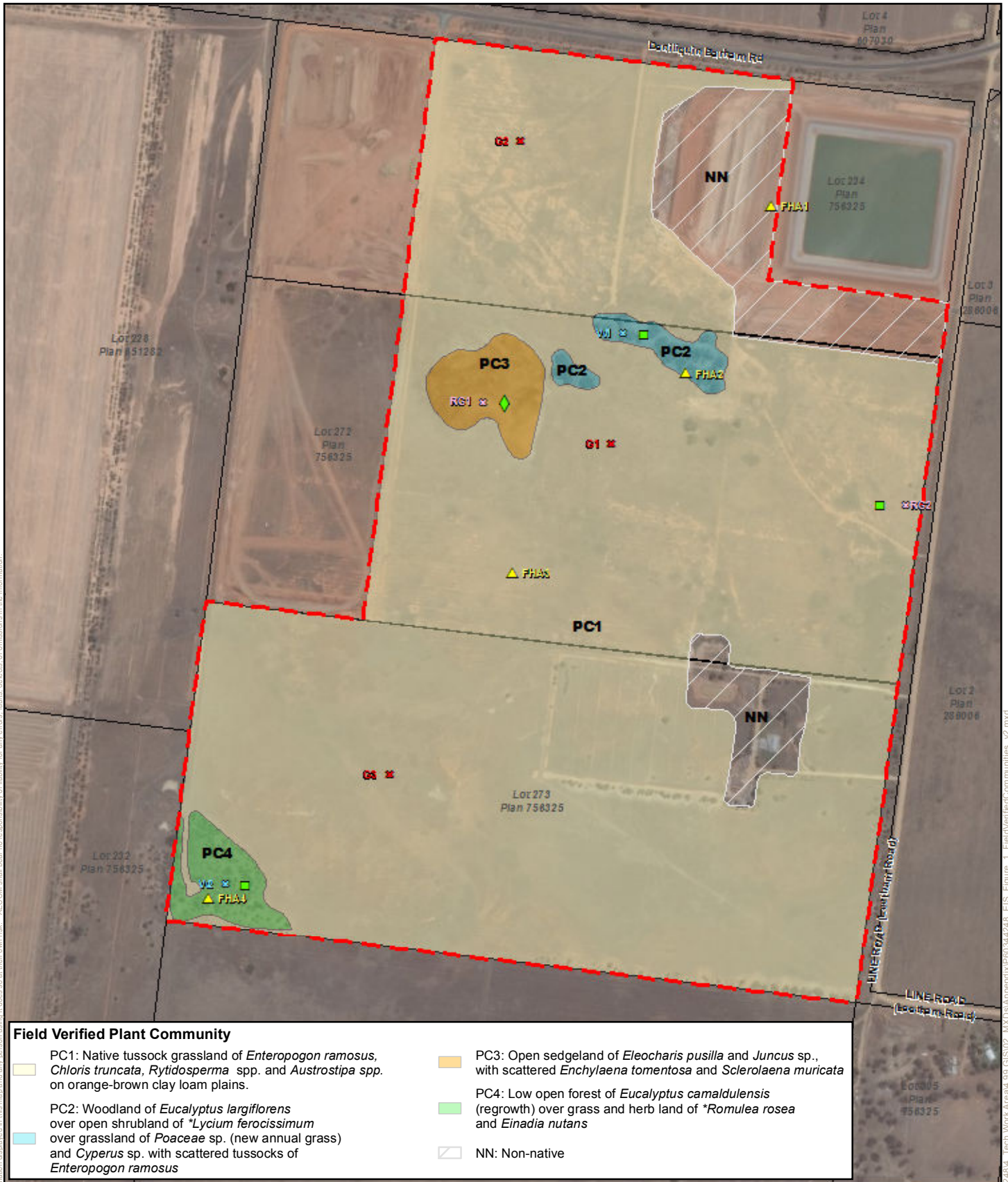
An additional two rapid grassland sites were undertaken within the grasslands, which did not involve setting up the 50 x 10 m plot, but was used to verify the plant community between detailed grassland sites. The same information was collected, however the site was plotless (covering an area of ~ 15 m radius from the site centre point, also known as a relevé), and the cover values collected were a visual estimate, rather than from established quadrats.

The two detailed woodland sites covered a plot area of 50 x 10 m, with five, 1 x 1 m quadrats established at 10 m intervals along the transect. The cover percentage of the overstorey strata (T1, T2, S1 etc.) was calculated using the line-intercept method. Cover percentage of the ground layer (Foliage Projective Cover) was recorded in the five, 1 x 1 m quadrats. The following information was recorded at the two woodland detailed plots:

- Site name and location (using hand-held GPS)
- Photos
- Landform and soil descriptions
- Vegetation structural descriptions using modified Specht (1970)
- General site description, observed disturbance factors and vegetation condition
- List of all vascular flora species within the 50 x 10 m plot
- Cover % of overstorey strata using the line-intercept method
- Cover % (Foliage Projective Cover) of ground cover species within the five, 1 x 1 m plots
- Cover % for bare and litter within the five, 1 x 1 m plots.

The field data collected at the seven flora sampling locations and the full flora species list is provided in Section 2.0. The location of the flora survey sites across the site is shown on Figure 1.

Field Verified Plant Communities, Flora and Fauna Survey Locations



Field Verified Plant Community

- PC1:** Native tussock grassland of *Enteropogon ramosus*, *Chloris truncata*, *Rytidosperma* spp. and *Austrostipa* spp. on orange-brown clay loam plains.
- PC3:** Open sedgeland of *Eleocharis pusilla* and *Juncus* sp., with scattered *Enchylaena tomentosa* and *Sclerolaena muricata*
- PC2:** Woodland of *Eucalyptus largiflorens* over open shrubland of **Lycium ferocissimum* over grassland of *Poaceae* sp. (new annual grass) and *Cyperus* sp. with scattered tussocks of *Enteropogon ramosus*
- PC4:** Low open forest of *Eucalyptus camaldulensis* (regrowth) over grass and herb land of **Romulea rosea* and *Einadia nutans*
- NN:** Non-native



LEGEND

- ▲ Fauna Habitat Locations
- Cadastral Boundaries
- Flora Survey Location**
- ✖ Detailed Grassland
- ✖ Rapid Grassland
- ✖ Detailed Woodland
- Weed Species**
- African Boxthorn
- ◆ Bathurst Burr
- Project Site

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DATUM GDA 1994, PROJECTION MGA ZONE 55

Data Sources:
 1. Imagery: © 2015 DigitalGlobe © 2015 GeoEye Earthstar Geographics SIO © 2015 Microsoft Corporation
 2. Roads, Railway, Drainage, Suburbs, Parks, Localities: © Street Pro, 2011
 3. Key Map Base Layer: ESRI Online
 4. Site Boundary: based on CAD
 Drawing prepared by: DONGMIN I.R.S. Co. Ltd.
 5. Environmental Data: AECOM, 2015

FIGURE 1

AECOM does not warrant the accuracy or completeness of information displayed in this map and any person using it does so at their own risk. AECOM shall bear no responsibility or liability for any errors, faults, defects or omissions in the information.

Document Path: \\aaron1\p003\Projects\603\X\603424834_Tech\WorkArea\499_GIS\02_MXD\Appendix\603424248_EIS_Figure_1_FieldVerifiedCommunities_v2.mxd

To interpret vegetation condition across the Project site, a predetermined rating scale was used (Table 1).

Table 1 The vegetation condition scale of Kaesehagen (1994)

Vegetation condition	Description
'Very Good to Excellent'	<ul style="list-style-type: none"> - 80% to 100% native flora composition - Vegetation structure intact or nearly so - Cover/abundance of weeds <5% - No or minimal signs of disturbance.
'Fair to Good'	<ul style="list-style-type: none"> - 50% to 80% native flora composition - Vegetation structure modified or nearly so - Cover/abundance of weeds 5% to 20%, any number of individuals - Minor signs of disturbance.
'Poor'	<ul style="list-style-type: none"> - 20% to 50% native flora composition - Vegetation structure completely modified or nearly so - Cover/abundance of weeds 20% to 60%, any number of individuals - Disturbance incidence high.
'Very Poor'	<ul style="list-style-type: none"> - 0% to 20% native flora composition - Vegetation structure disappeared - Cover/abundance of weeds 60% to 100%, any number of individuals - Disturbance incidence very high.

The plant taxonomy and nomenclature of flora species within this report follows that of the online Australian Plant Name Index (APNI) and the Australian Plant Census (APC) (CHAH, 2015).

Plant Community Mapping was undertaken at a scale of 1:10, 000 across the Project Site and communities were defined by interpolating aerial photography from the survey points.

Limitations

The survey was undertaken in early June (winter), which is not ideal timing for the identification of flora species within the Riverina district. Ideal timing is late winter, early spring, after sufficient rainfall for grass and herb species growth. As such, a likelihood of presence rating was assigned to each threatened flora species raised during the desktop assessment.

The entire site was accessible for the survey and was adequately covered as part of the current survey. As such survey coverage was not limited for this survey. The survey intensity was adequate for the site and the plant communities identified. The following survey intensity was achieved for the Project Site (Table 2).

Table 2 Survey Intensity for the Flora Survey

Plant Community	Plant Community Area	Survey Sites
PC1	101.1 ha	3 Detailed, 2 Rapid
PC2	1.3 ha	1 Detailed
PC3	2.2 ha	1 Rapid
PC4	1.8 ha	1 Detailed

2.0 Flora Field Results

A total of 39 flora species from 33 genera and 15 families were identified during the field survey undertaken in June 2015. The dominant plant families identified onsite were Poaceae (10 taxa), Chenopodiaceae (8 taxa) and Asteraceae (6 taxa). Of the 39 flora species identified, 28 were native species and 11 non-native (Table 3).

Table 3 Flora species recorded at the Deniliquin Project Site

Family	Status	Species	AECOM June 2015	NGH 2014
Asteraceae	*	<i>Aster subulatus</i>	X	
	?	<i>Asteraceae</i> sp. (new growth)	X	
		<i>Calocephalus sonderi</i>	X	
	*	<i>Cirsium vulgare</i>		X
	*	<i>Conyza bonariensis</i>	X	
		<i>Pseudognaphalium luteoalbum</i>		X
		<i>Vittadinia cuneata</i>	X	X
	* N	<i>Xanthium spinosum</i>	X	
Boraginaceae	*	<i>Echium plantagineum</i>		X
Brassicaceae	*	<i>Lepidium africanum</i>	X	X
Caryophyllaceae		<i>Stellaria angustifolia</i>		X
Casuarinaceae		<i>Allocasuarina luehmannii</i>	X	
Chenopodiaceae		<i>Atriplex nummularia</i>	X	
		<i>Chenopodium nitrariaceum</i>		X
		<i>Dissocarpus paradoxa</i>		X
		<i>Einadia nutans</i>	X	X
		<i>Enchylaena tomentosa</i>	X	
		<i>Maireana brevifolia</i>	X	
		<i>Rhagodia spinescens</i>	X	X
		<i>Salsola australis</i>	X	
		<i>Sclerolaena birchii</i>	X	X
		<i>Sclerolaena muricata</i>	X	X
Crassulaceae		<i>Crassula sieberiana</i>		X
Cyperaceae		<i>Cyperus</i> sp.	X	
		<i>Eleocharis pusilla</i>	X	X
Euphorbiaceae		<i>Chamaesyce</i> sp.	X	
Fabaceae	*	<i>Trifolium</i> sp.	X	
Iridaceae	*	<i>Romulea rosea</i>	X	

Family	Status	Species	AECOM June 2015	NGH 2014
Juncaceae		<i>Juncus</i> sp.	X	X
Lamiaceae	*	<i>Marrubium vulgare</i>	X	
Marsileaceae		<i>Marsilea drummondii</i>	X	X
Myrtaceae		<i>Eucalyptus camaldulensis</i>	X	X
		<i>Eucalyptus largiflorens</i>	X	X
Oxalidaceae		<i>Oxalis perennans</i>	X	X
Poaceae		<i>Austrostipa nodosa</i>	X	X
		<i>Austrostipa scabra</i>	X	X
		<i>Chloris truncata</i>	X	X
		<i>Enteropogon ramosus</i>	X	X
	*	<i>Hordeum leporinum</i>	X	
	*	<i>Lolium rigidum</i>	X	
		<i>Poaceae</i> sp. (sterile, new growth)	X	
		<i>Rytidosperma duttoniana</i>	X	X
		<i>Rytidosperma eriantha</i>		X
		<i>Rytidosperma</i> sp. (sterile)	X	
	<i>Sporobolus caroli</i>	X		
Polygonaceae		<i>Duma florulenta</i>		X
Rutaceae		<i>Geijera parviflora</i>		X
Solanaceae	* N, WONS	<i>Lycium ferocissimum</i>	X	X
		<i>Solanum esuriale</i>	X	X

* = denotes an introduced species, N = Noxious weed, WONS = Weed of National Significance

The field datasheets are provided as Table 4.

Table 4 Field data

Grassland Flora Site - DG1													
SITE INFORMATION													
Project	Deniliquin Ethanol EIS	Datum/Zone	GDA'94/	Grassland Condition									
Date	1/06/2015	Easting	m/E 0309992	Patch size	> 5 ha								
Site ID	DG1	Northing	m/N 6062772	Native dominated	Yes								
Observer	GT	Landform	Floodplain	TEC	No								
Plot size	50 x 10 m plot, with ten 1 x 1 m Quadrats (0.01 ha)	Soils	Orange-Brown Clay Loam										
VEGETATION STRUCTURAL DESCRIPTION													
Tussock grassland of <i>Enteropogon ramosus</i> , <i>Chloris truncata</i> , <i>*Lolium rigidum</i> and <i>Vittadinia cuneata</i> on orange-brown clay loam floodplain.													
GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION													
Grassland is native species dominated, but has low species richness and a high percentage (20 %) of exotic grass and forb species. Area has been previously cleared of woodland vegetation and is grazed by rabbits and macropods.													
VEGETATION FLORISTICS													
Species	Category	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	% Cover	% Category Cover
<i>Enteropogon ramosus</i>	Native Grass	10	25	10	20	10	30	15	15	20	20	17.5	
<i>Rytidosperma</i> sp. (sterile)	Native Grass	5						5			5	1.5	
<i>Chloris truncata</i>	Native Grass	15	10	20	30	15		15	20	10	10	14.5	
<i>Sporobolus caroli</i>	Native Grass							2				0.2	33.7
<i>Vittadinia cuneata</i>	Native Forb	5				1			3		2	1.1	
<i>Solanum esuriale</i>	Native Forb			2							1	0.3	
<i>Marsilea drummondii</i>	Native Forb					2						0.2	
<i>Einadia nutans</i>	Native Forb						5			5	3	1.3	2.9
<i>*Lolium rigidum</i>	Exotic Grass		10	15		15	10	5	10	10	5	8	
<i>*Poaceae</i> sp. (new growth)	Exotic Grass		5	7	5	8	15	10	10	10	5	7.5	15.5
<i>Chamaesyce</i> sp.	Exotic Forb	2					2					0.4	
<i>*Romulea rosea</i>	Exotic Forb	2	5	3	5	2	5	2	2	5	5	3.6	
<i>*Trifolium</i> sp.	Exotic Forb					5						0.5	4.5
Bare		20	15	10	10	10	15	15	20	15	20	15	15
Litter		41	30	33	30	32	18	31	20	25	24	28.4	28.4
Cryptogams													
Totals		100	100	100	100	100	100	100	100	100	100	100	100

Incidentals (within 50 x 10 m plot):

**Lepidium africanum*, *Austrostipa scabra*

Grassland Flora Site - DG2														
SITE INFORMATION														
Project	Deniliquin Ethanol EIS	Datum/Zone	GDA'94/									Grassland Condition		
Date	2/06/2015	Easting	m/E 0309854									Patch size	> 5 ha	
Site ID	DG2	Northing	m/N 6063232									Native dominated	Yes	
Observer	GT	Landform	Floodplain									TEC	No	
Plot size	50 x 10 m plot, with ten 1 x 1 m Quadrats (0.01 ha)	Soils	Orange-Brown Clay Loam											
VEGETATION STRUCTURAL DESCRIPTION														
Native tussock grassland of <i>Enteropogon ramosus</i> , <i>Chloris truncata</i> , <i>Austrostipa scabra</i> , <i>Vittadinia cuneata</i> and <i>Einadia nutans</i> on orange-brown clay loam floodplains.														
GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION														
Grassland is native species dominant, with patches of open bare ground in places. Native species richness is moderate in this patch, with a lower percentage cover (~14 %) of exotic species. Recent rain has caused a flush of new annual grass and forb species to sprout, however species cannot be identified. Area has been previously cleared of woodland vegetation, and is grazed by rabbits and macropods.														
VEGETATION FLORISTICS														
Species	Category	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	% Cover	% Category Cover	
<i>Enteropogon ramosus</i>	Native Grass	5	25				15	20	15	15	15		11	
<i>Poaceae</i> sp. (sterile)	Native Grass	5						5					1	
<i>Chloris truncata</i>	Native Grass	30	12	9		9	10		10	13	10		10.3	
<i>Rytidosperma duttoniana</i>	Native Grass	10	15		20	40	10	20	5				12	
<i>Austrostipa scabra</i>	Native Grass		5	2	10	5	5	5		15	15		6.2	
<i>Rytidosperma</i> sp. (sterile)	Native Grass							5					0.5	41
<i>Vittadinia cuneata</i>	Native Forb	1	2			2	5		5	5	5		2.5	
<i>Einadia nutans</i>	Native Forb			40	50	17		15	20	15	15		17.2	
<i>Marsilea drummondii</i>	Native Forb						5		5				1	
<i>Solanum esuriale</i>	Native Forb						2						0.2	
<i>Sclerolaena muricata</i>	Native Forb									5			0.5	21.4
* <i>Lolium rigidum</i>	Exotic Grass	2	2	10	5								1.9	
* <i>Hordeum leporinum</i>	Exotic Grass									2			0.2	2.1
* <i>Salsola tragus</i>	Exotic Forb	3		2	5	2			10	5			2.7	
* <i>Romulea rosea</i>	Exotic Forb	5	2	20									2.7	
* <i>Trifolium</i> sp.	Exotic Forb	2					8						1	
*? <i>Arctotheca</i> sp.	Exotic Forb	7	5				5	10	10		10		4.7	
* <i>Lepidium africanus</i>	Exotic Forb						5						0.5	11.6
Bare		20	20	5	10	15	0	15	10	25	30		15	15
Litter		10	10	12		10	30	5	10				8.7	8.7

Cryptogams			2										0.2	0.2
Total		100	100	100	100	100	100	100	100	100	100	100	100	100

Incidentals (within 50 x 10 m plot): *Atriplex nummularia*, *Enchylaena tomentosa*, **Sclerolaena birchii*

Grassland Flora Site - DG3														
SITE INFORMATION														
Project	Deniliquin Ethanol EIS	Datum/Zone	GDA'94/ 55 H										Grassland Condition	
Date	2/06/2015	Easting	m/E 309411										Patch size	> 5 ha
Site ID	DG3	Northing	m/N 6062123										Native dominant	Yes
Observer	GT	Landform	Floodplain										Grassland TEC	No
Plot size	50 x 10 m plot, with ten 1 x 1 m Quadrats (0.01 ha)	Soils	Orange-Brown Clay Loam											
VEGETATION STRUCTURAL DESCRIPTION														
Native tussock grassland of <i>Enteropogon ramosus</i> , <i>Chloris truncata</i> , <i>Rytidosperma</i> sp. and * <i>Romulea rosea</i> on orange-brown clay loam floodplain.														
GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION														
This grassland within the southern property has been moderately disturbed through the actions of clearing of the woodland, and sheep and cattle grazing. The property is currently stocked with sheep (low level grazing). Exotic species cover is ~17 %, with about 30 % bare ground.														
VEGETATION FLORISTICS														
Species	Category	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	% Cover	% Category Cover	
<i>Chloris truncata</i>	Native Grass	10	20			5	5	15	5	15		7.5		
<i>Enteropogon ramosus</i>	Native Grass	20	20	20	25	25	5	10	5	5	10	14.5		
<i>Sporobolus caroli</i>	Native Grass					5						0.5		
<i>Rytidosperma</i> sp. (sterile)	Native Grass					5	10					1.5		
<i>Austrostipa scabra</i>	Native Grass						5	5	5	5		2	26	
<i>Vittadinia cuneata</i>	Native Forb	5		2	5							1.2		
<i>Einadia nutans</i>	Native Forb				5			10		5	10	3		
<i>Marsilea drummondii</i>	Native Forb				5		5					1		
<i>Enchylaena tomentosa</i>	Native Forb							2				0.2	5.4	
* <i>Lolium rigidum</i>	Exotic Grass	5	5	20		5	5					4	4	
* <i>Romulea rosea</i>	Exotic Forb	20	10	5	15	5	15	10	10	10	5	10.5		
* <i>Trifolium</i> sp.	Exotic Forb			5				5				1		
* <i>Salsola tragus</i>	Exotic Forb								5	2	5	1.2	12.7	
Bare		15	25	20	15	20	20	25	40	40	60	28	28	
Litter		25	20	28	30	30	30	18	30	18	10	23.9	23.9	
Cryptogams														
Total		100	100	100	100	100	100	100	100	100	100	100	100	

Incidentals (within 50 x 10 m plot): *Maireana brevifolia*

Flora Site - W1

SITE INFORMATION

Project	Deniliquin EIS	Datum/Zone	GDA'94/ Zone 55 H
Date	1-Jun-15	Easting	m/E 310010
Site ID	W1	Northing	m/N 6062940
Observer	GT	Landform	Floodplain, slight depression
Plot size	50 x 10 m	Soils	Orange-brown clay loam
		Patch size	170 x 50 m

VEGETATION STRUCTURAL DESCRIPTION

Woodland of *Eucalyptus largiflorens* over open shrubland of **Lycium ferocissimum* over grassland of *Poaceae* sp. (new annual grass) and *Cyperus* sp., with scattered tussocks of *Enteropogon ramosus*.

GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION

Large *Eucalyptus largiflorens* trees (Basal area 24). Area under trees has been heavily grazed by rabbits.

SPECIES

Species	Stratum	Height (m)	Stem count	Cover (%)*
<i>Eucalyptus largiflorens</i>	T1	12 to 15	5	48.6
<i>Eucalyptus camaldulensis</i>	T1	15	0	0
<i>*Lycium ferocissimum</i>	S1	2	4	0
<i>*Lepidium africanum</i>	G	<0.5	na	2.2
<i>*Marrubium vulgare</i>	G	<0.5	na	3
<i>Enteropogon ramosus</i>	G	<0.5	na	3
<i>Poaceae</i> sp. (new annual grass)	G	<0.5	na	48
<i>Cyperus</i> sp.	G	<0.5	na	11
<i>Juncus</i> sp.	G	<0.5	na	0.2
<i>*Trifolium</i> sp.	G	<0.5	na	1
<i>*Salsola tragus</i>	G	<0.5	na	0
Bare				1
Litter				30.6

*T1 and S1 cover layers used line-intercept method, G layers were recorded in 5 (1x1m) quadrats along the 50 m tape

PHOTOS



Flora Site - W2

SITE INFORMATION

Project	Deniliquin EIS	Datum/Zone	GDA'94/ Zone 55 H
Date	2-Jun-15	Easting	m/E 310441
Site ID	W2	Northing	m/N 6062678
Observer	GT	Landform	Floodplain
Plot size	Releve (~15 m radius from centre)	Soils	Orange-brown loam
		Patch size	~150 x 150 m

VEGETATION STRUCTURAL DESCRIPTION

Regrowth *Eucalyptus camaldulensis* woodland over grass and herbland.

GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION

Patch is heavily grazed by rabbits, macropods and livestock. Large rubbish dump within the middle of the patch, and understorey has large presence fo *Romulea rosea*.

SPECIES

Species	Stratum	Height (m)	Stem count	Cover (%)*
<i>Eucalyptus camaldulensis</i>	T1	5 to 7		50
<i>Enteropogon ramosus</i>	G	< 0.5		5
* <i>Romulea rosea</i>	G	< 0.5		20
<i>Einadia nutans</i>	G	< 0.5		5
<i>Sclerolaena muricata</i>	G	< 0.5		3
<i>Maireana brevifolia</i>	G	< 0.5		3
* <i>Lycium ferocissimum</i>	G	< 1		0.5
Bare				40
Litter				10

*T1 and S1 cover layers used line-intercept method, G layers were recorded in 5 (1x1m) quadrats along the 50 m tape

PHOTOS



Flora Site - RG1

SITE INFORMATION

Project	Deniliquin EIS	Datum/Zone	GDA'94/ Zone 55 H
Date	1-Jun-15	Easting	m/E 309796
Site ID	RG1	Northing	m/N 6062835
Observer	GT	Landform	Floodplain, slight depression
Plot size	Releve (~ 15 m from centrepoint)	Soils	Grey coarse (sandy) cracking clay
		Patch size	50 x 50 m

VEGETATION STRUCTURAL DESCRIPTION

Open sedgeland of *Eleocharis pusilla* and *Juncus* sp., with scattered *Enchylaena tomentosa* and *Sclerolaena muricata*.

GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION

Small depression (~ 50 x 50 m) with grey coarse cracking clay, seasonally inundated. A number of weed species were recorded at this site, including the noxious weed Bathurst Burr (*Xanthium spinosum*).

SPECIES

Species	Stratum	Height (m)	Stem count	Cover (%)*
<i>Eleocharis pusilla</i>	G	<0.5	na	25
<i>Juncus</i> sp.	G	<0.5	na	1
* <i>Lepidium africanum</i>	G	<0.5	na	1
* <i>Hordeum leporinum</i>	G	<0.5	na	5
<i>Enchylaena tomentosa</i>	G	<0.5	na	5
? <i>Asteraceae</i> sp.(new growth)	G	<0.5	na	2
<i>Vittadinia cuneata</i>	G	<0.5	na	2
* <i>Xanthium spinosum</i>	G	<0.5	na	1
* <i>Lolium rigidum</i>	G	<0.5	na	2
<i>Sclerolaena muricata</i>	G	<0.5	na	2
* <i>Coryza bonariensis</i>	G	<0.5	na	2
<i>Enteropogon ramosus</i>	G	<0.5	na	2
Bare				40
Litter				10

*Visual Estimate of cover

PHOTOS



Flora Site - RG2

SITE INFORMATION

Project	Deniliquin EIS	Datum/Zone	GDA'94/ Zone 55 H
Date	2-Jun-15	Easting	m/E 310441
Site ID	RG2	Northing	m/N 6062678
Observer	GT	Landform	Floodplain
Plot size	Plotless releve (~15 m radius from centre)	Soils	Orange-brown loam
		Patch size	> 5 ha

VEGETATION STRUCTURAL DESCRIPTION

Tussock grassland of *Austrostipa* spp., *Chloris truncata* and *Enteropogon ramosus* on orange-brown loamy floodplain.

GENERAL SITE COMMENTS/DISTURBANCE/VEGETATION CONDITION

Grassland grazed by rabbits and macropods

SPECIES

Species	Stratum	Height (m)	Stem count	Cover (%)*
<i>Austrostipa scabra</i>	G	<0.5		10
<i>Austrostipa nodosa</i>	G	<0.5		5
<i>Chloris truncata</i>	G	<0.5		6
<i>Enteropogon ramosus</i>	G	<0.5		5
* <i>Asteraceae</i> sp. (new growth)	G	<0.5		10
* <i>Salsola tragus</i>	G	<0.5		5
<i>Vittadinia cuneata</i>	G	<0.5		5
* <i>Lepidium africanum</i>	G	<0.5		2
<i>Rytidosperma</i> sp.	G	<0.5		2
* <i>Lycium ferocissimum</i>	Incidentals			
<i>Allocasuarina luehmannii</i>	Incidentals			
<i>Rhagodia spinescens</i>	Incidentals			
Bare				40
Litter				10

*Visual Estimate of cover

PHOTOS



3.0 Fauna Field Sampling Methods and Results

A fauna survey was undertaken by a qualified fauna ecologist from AECOM on the 1 and 2 June 2015 in accordance with the Office of Environment and Heritage (OEH) field survey methods to the level of Habitat Assessment. No intensive fauna surveys were undertaken. Weather conditions during the field assessment were cool and dry (Table 5).

Table 5 Weather observations during the field assessment (Data from Deniliquin Airport)

Date	Max. Temp (°C)	Rainfall (mm)	Cloud (octas) at 3 pm	Wind speed at 3 pm (Km/Hr)
01 June 2015	12.4	0	5	28
02 June 2015	12.9	0	1	19

The survey was completed to characterise the fauna assemblages in the Project Site and the types of habitat available for threatened fauna. The survey was completed by walking and recording all vertebrate species encountered, using binoculars where necessary. All fauna observations were made visually or audibly and no animals were captured or handled.

Areas of interest identified as part of the desktop survey were visited and assessed on the ground for the presence of habitat for threatened fauna. Consideration was given to the quantity of suitable habitat for each threatened species within, and adjacent to, the Project site and its degree of connectivity to similar habitat. Areas of interest for habitat and its immediate surrounds were searched for general signs of fauna, such as nests, feathers, scats and the lifting of woody debris and loose rocks was undertaken to search for herpetofauna (reptiles and frogs) and small mammals.

The location of each area of interest for fauna was recorded and notes made on proposed mitigation to avoid or further reduce potential impacts. Fauna habitat assessments were undertaken at four locations. The following qualitative and quantitative data was collected at each site:

- General habitat description and vegetation type
- Habitat condition
- Dominant/characteristic flora species for each strata
- Abundance of particular habitat characteristics including:
 - Hollows of different size classes
 - Fallen logs of different size classes
 - Decorticating bark
 - Fine and coarse litter
 - Cryptogammic crust
 - Soil cracks
 - Grass
 - Bare ground
 - Stones and boulders in different size classes
 - Termitaria
 - Dense shrubs.
- Weed species abundance and distribution
- Fire history
- Disturbance types and extent (e.g. fire, logging, grazing)
- Connectivity
- Land use
- General condition

- Animal sign (nests, shelters, diggings, scats, tracks, burrows, tree scratches and feeding scars, any other sign)
- Fauna observations.

Limitations


Due to the timing and duration of the field assessment, it was not possible to provide a definitive list of all species that occupy the Project Site. As such, a likelihood of presence rating was assigned to each threatened or migratory species raised during the desktop assessment.


4.0 Fauna Results


Four distinct fauna habitat areas were identified during the assessment, located at fauna sites FHA1-FHA4. Detailed habitat descriptions are provided in Table 6 and the location of the fauna sites are shown on Figure 1.


The Project Site is heavily degraded and is predominantly agricultural land used for grazing. Due to the historic clearance of large woody vegetation throughout the entire Project Site, ecological values were mostly confined to the grass and rush ground-layers and mature scattered trees.

Table 6 Fauna habitat within and adjacent to the Project Site

Fauna Assessment Site	Habitat type	Habitat Description and Fauna	Habitat Image
FHA1	Dam	<p>FHA1 comprised an artificial, square-shaped farm reservoir with an offsite pumping station to the north-east (<i>top right image</i>). The waterbody was considered to be low quality for aquatic species such as frogs, fish and birds due to the general lack of wetland or aquatic vegetation. The bank margins were predominantly bare, with only saltbush and other low grasses and herbs on the low bank top. However, the open water provided roosting and foraging habitat for a number of common bird species including high numbers (100+) of grey teal (<i>Anas gracilis</i>), as well as black swan (<i>Cygnus atratus</i>), Australian shelduck (<i>Tadorna tadornoides</i>), Eurasian coot (<i>Fulica atra</i>) and masked lapwing (<i>Vanellus miles</i>). A swamp harrier (<i>Circus approximans</i>) was also observed flying and hunting over the water.</p> <p>Fresh footprints of a potential bird and frog predator, European fox (<i>Vulpes vulpes</i>), were identified in bare soil on 02 June 2015 (<i>image bottom right</i>). The footprints comprised an adult and a juvenile fox, indicating that the pest species is breeding successfully in the local area and are likely to be impacting local small-medium sized ground-dwelling vertebrates.</p> <p>Potential for Threatened Species:</p> <p>The reservoir could provide non-breeding habitat for the EPBC-Act listed growling grass frog (<i>Litoria raniformis</i>); however whilst the frog is predicted to occur in the area (OEH website, 2015) and there are local farm dams close by, it has not been recorded in the area (Bionet Atlas or ALA databases). The likelihood of growling grass frog occurring at the site was therefore considered to be 'low'. Threatened waterbirds such as the vulnerable TSC Act-listed blue-billed duck (<i>Oxyura australis</i>), freckled duck (<i>Stictonetta naevosa</i>), spotted Harrier (<i>Circus assimilis</i>) and EPBC Act-listed migratory great egret (<i>Ardea alba</i>) could utilise the reservoir on an occasional basis. However, no breeding or significant non-breeding habitat was considered to be present for these species and their likelihood of occurrence was considered to be 'low'.</p>	

Fauna Assessment Site	Habitat type	Habitat Description and Fauna	Habitat Image
FHA2	Woodland	<p>FHA2 was a highly degraded and fragmented patch of mature black box woodland (<i>image top right</i>), with an absence of native understorey species that had been replaced by occasional exotic African boxthorn. The trees were very large and showed frequent senescence with large and small hollows in standing and fallen dead wood (<i>image middle right</i>) suitable for sheltering birds, mammals and small reptiles. Coarse and fine litter debris from trees was frequent in the ground layer and provided food for birds, small mammals and insects. A large stick nest from a raptor was recorded high up in the fork of a mature tree (<i>image bottom right</i>) and numerous old mammalian bones were detected on the ground below the nest. It is likely that this nest is still active during the breeding season. The numerous spouts and hollows were observed to attract galahs (<i>Eolophus roseicapilla</i>), noisy miners (<i>Manorina melanocephala</i>) and European starlings (<i>Sturnus vulgaris</i>) for potential nest sites. The presence of abundant noisy miners is typical of fragmented woodlands where the species is able to out-compete smaller woodland birds and is likely to explain the low diversity of such birds recorded in this habitat. Vertical cracks and fissures in rotting tree trunks provide suitable habitat for cavity-roosting bats. Evidence of eastern grey kangaroo in the woodland habitat was observed in the form of scats and tracks; the species probably uses the trees for resting and shade during the daytime.</p> <p>Two pest species were recorded in FHA2 comprising scats of European rabbit (<i>Oryctolagus cuniculus</i>) and European fox. A rabbit was also observed running into a burrow entrance located at the base of an over-mature black box tree. Feathers and wings of a crested pigeon were found on the ground and are likely to be feeding remains of European fox. The presence of exotic pests compounds impacts of native animal survivorship in the fragmented and degraded habitat through resource competition and further reduces its suitability for native species.</p> <p>Potential for Threatened Species: Flowering black box would provide foraging habitat for various bird species, including the commonwealth threatened swift parrot (<i>Lathamus discolor</i>) and superb parrot (<i>Polytelis swainsonii</i>); however the resource would be limited. Despite suitable ecological features within the fragmented open woodland providing habitat for a number of common vertebrate species, the habitat does not provide significant habitat for any threatened fauna.</p>	

Fauna Assessment Site	Habitat type	Habitat Description and Fauna	Habitat Image
FHA3	Grassland	<p>FHA3 was recorded as a representative area of the wider grassland area within the Project Ste, including the wetter area in the central western edge comprising dense sedges and rushes and planted windrows near farm buildings. This habitat has been historically grazed and at the time of survey was observed to support a small number of sheep. The structure of the open tussock grassland and sedgeland was low-lying with occasional boxthorn and varying degrees of fine leaf litter and bare ground areas. The denser tussock areas provided suitable shelter and foraging habitat for small mammals, skinks ground-nesting birds and hunting raptors and insectivorous birds. The ground nesting Australian pipit (<i>Anthus novaeseelandiae</i>) was recorded in the grasslands, together with foraging Australian magpie (<i>Cracticus tibicen</i>), eastern rosella (<i>Platycercus eximius</i>), pied currawong (<i>Strepera graculina</i>), nankeen kestrel (<i>Falco cenchroides</i>), whistling kite (<i>Haliastur sphenurus</i>), black kite (<i>Milvus migrans</i>), wedge-tailed eagle (<i>Aquila audax</i>), welcome swallow (<i>Hirundo neoxena</i>) and white-backed swallow (<i>Cheramoeca leucosternus</i>).</p> <p>Potential for Threatened Species: The areas of grassland with shorter swards and/or frequent bare ground were considered to support habitat suitable for the EPBC Act-listed plains wanderer (<i>Images to right</i>). The presence of records approximately 2.5 km from the Project Site in 2011 further supported the assessment that the species could be present in the Project Site. The likelihood of occurrence has therefore been evaluated as 'Moderate'.</p>	

Fauna Assessment Site	Habitat type	Habitat Description and Fauna	Habitat Image
FHA4	Woodland	<p>FHA4 was a patch of dense river red gum regrowth in the south-western corner of the Project Site. Trees were generally young or semi-matures that had been grazed below the canopy by cattle and sheep, resulting in a heavily eroded ground layer dominated by bare ground and occasional coarse woody debris. The habitat contained no understorey and ground cover was limited to scattered grasses and chenopods. In the far south-west of FHA4 there was a cleared area with frequent short grasses and small number of mature and over-mature river red gums that showed various stages of decay. The older trees provided the only real ecological value in FHA4 by providing foraging and roosting opportunities for arboreal and hollow-dwelling animals, such as parrots, possums and microbats. However, the fragmented and limited extent of the mature trees reduced the suitability of the microhabitats for fauna due to the general absence of connectivity and cover to similarly suitable habitat. Noisy miner, Willie wagtail and eastern rosella, birds adapted to modified environments, were the only species recorded in FHA4.</p> <p>Potential for Threatened Species: Significant habitat for threatened species was not considered to be present in FHA4, although hollows could contain native species.</p>	

A total of 31 fauna species were recorded during the field survey, including five mammals and 26 birds (Table 7). The fauna species recorded within the Project Site are those species that are capable of traversing and persisting within a modified agricultural landscape. Such species are necessarily tolerant of disturbance, and are typically common and widespread.

Table 7 Fauna species recorded at the Project Site in June 2015

Common Name	Species Name	EPBC Act	TSC Act (Endangered or vulnerable only)
Mammals			
Eastern Grey kangaroo	<i>Macropus giganteus</i> *	-	-
Brush-tailed possum	<i>Trichosurus vulpecula</i> *	-	-
European fox#	<i>Vulpes vulpes</i>	-	-
Sheep#	<i>Ovis aries</i>	-	-
European rabbit#	<i>Oryctolagus cuniculus</i>	-	-
Birds			
Australian magpie	<i>Cracticus tibicen</i>	-	-
Australian pipit	<i>Anthus novaeseelandiae</i>	-	-
Australian raven	<i>Corvus coronoides</i>	-	-
Australian shelduck	<i>Tadorna tadornoides</i>	-	-
Black-faced cuckoo-shrike	<i>Coracina novaehollandiae</i>	-	-
Black kite	<i>Milvus migrans</i>	-	-
Black swan	<i>Cygnus atratus</i>	-	-
Crested Pigeon	<i>Ocyphaps lophotes</i>	-	-
Eastern rosella	<i>Platycercus eximius</i>	-	-
Eurasian coot	<i>Fulica atra</i>	-	-
European starling#	<i>Sturnus vulgaris</i>	-	-
Galah	<i>Eolophus roseicapilla</i>	-	-
Grey teal	<i>Anas gracilis</i>	-	-
Magpie-lark	<i>Grallina cyanoleuca</i>	-	-
Masked lapwing	<i>Vanellus miles</i>	-	-
Nankeen kestrel	<i>Falco cenchroides</i>	-	-
Noisy miner	<i>Manorina melanocephala</i>	-	-
Pied butcherbird	<i>Cracticus nigrogularis</i>	-	-
Pied currawong	<i>Strepera graculina</i>	-	-
Straw-necked ibis	<i>Threskiornis spinicollis</i>	-	-
Swamp Harrier	<i>Circus approximans</i>	-	-
Wedge-tailed eagle	<i>Aquila audax</i>	-	-
Welcome swallow	<i>Hirundo neoxena</i>	-	-
White-backed swallow	<i>Cheramoeca leucosternus</i>	-	-
Whistling kite	<i>Haliastur sphenurus</i>	-	-
Willie wagtail	<i>Rhipidura leucophrys</i>	-	-

Mi – Migratory, V – Vulnerable; *=identified by scats, #=introduced species

5.0 References

CHAH, 2015. *Council of Heads of Australasian Herbaria*. [Online]
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Kaesehagen, D., 1994. *Bushland Condition Mapping*. Perth, Murdoch University.