



Memorandum

26 March 2021

To Western Power

Copy to

From GHD Pty Ltd Job no. 12544616

Subject Assessment of environmental impacts and recommendations

1 Introduction

1.1 Background

Western Power requires a Native Vegetation Clearing permit (NVCP) to construct a distribution cable connection from Western Power's existing power pole on Rosedale street, to a customers property (Brad and Claire McLean) at 3350 Rosedale Street in Chidlow (the Site). The Site area is located within the Shire of Mundaring, approximately 37 km north east of Perth Central Business District as shown in Figure 1.

The Site footprint, represents the area within which clearing or disturbance of native vegetation will occur. The total footprint (shown as the "Access to Work Area" in Figure 1) to be impacted is 69 m² (less than 0.007 ha). Approximately 3.5 m² (less than 0.0004 ha) will be impacted directly through excavation and 16 m² (0.0016 ha) will be disturbed by the parking of a drill rig. These two area are represented on Figure 1 as "Clearing Required for Construction". It should be noted this area is not completely covered in native vegetation and includes existing cleared areas. The remaining 49.5 m² (0.005 ha) of the Site footprint may be impacted by the movement of people (Figure 1). Clearing will occur along Rosedale Street at the base of Pole No. S383338 (Figure 3) to enable underground distribution of the line using horizontal drilling. Further disturbance will occur in a cleared area on the residents property (Figure 4). Permanent infrastructure will comprise underground cables. Works are anticipated to take approximately two days to complete.

The distribution line will be installed via horizontal drilling. The launching (entry) pit is located within Lot 4407 and receival (exit) pit is located in the road reserve. Horizontal drilling will occur at a minimum depth of 0.75 m. The diameter of poly-pipe to be installed is 63 mm. It is not expected that the proposed underground works will impact native vegetation with the exception of minor disturbance to root systems.

GHD has undertaken a high-level review of environmental values to determine whether the project is likely to be at variance to any of the ten clearing principles under the *Environmental Protection Act 1986* (EP Act).

1.2 Memorandum purpose and scope

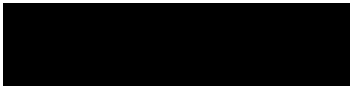
The purpose of memorandum is to provide:

- Consideration of whether the project is likely to be at variance to any of the ten clearing principles as outlined in Schedule 5 of the EP Act and Environmental Protection (Clearing of Native Vegetation) Regulations 2004
- Assessment of the potential impacts to flora and vegetation that may result from the project
- Recommendations for minimising the potential impacts of the project.

2 Land tenure

Table 1 provides the land tenure details for the Site footprint within which clearing of native vegetation will occur.

Table 1 Land tenure details

Lot number	Parcel ID	Street address	Land type	Land manager
4407	P160706	3350 Rosedale St, Chidlow 6556	Private	
N/A	P Road	Rosedale Street	Road	Shire of Mundaring

3 Desktop assessment

A high level desktop environmental assessment, using publicly available spatial datasets (largely sourced from the Government of Western Australia (GoWA), and government managed datasets, was undertaken of the Site footprint, the results are provided in Table 2. Figure 2 presents Threatened and Priority flora and fauna Department of Biodiversity, Conservation and Attractions (DBCA) records within a 5 km radius of the Site footprint.

Table 2 Desktop Environmental Assessment

Aspect	Information source	Presence/relevance to the Project	Potential trigger for State/Commonwealth approvals
Environmentally Sensitive Areas (ESAs) – Clearing Regulations	Department of Water and Environmental Regulation (DWER) Clearing regulations – ESAs (DWER-046)	No	No
Native Vegetation Extent WA	Department of Primary Industries and Regional Development (DPIRD) Native Vegetation Extent (DPIRD-005)	Yes – native vegetation intersects the project.	No – the Site footprint is 69 m ² with minimal native vegetation present within the project footprint.

Aspect	Information source	Presence/relevance to the Project	Potential trigger for State/Commonwealth approvals
Public Drinking Water Source Areas (PDWSA)	DWER Public Drinking Water Source Areas (DWER-033)	No	No – Mundaring Weir (Metropolitan) Catchment Area – Surface Water is located approximately 3 kilometres (km) south/southeast of the project.
Geomorphic Wetlands/ RAMSAR Wetlands	DBCA Geomorphic Wetlands, Swan Coastal Plain (DBCA-019) Directory of Important Wetlands in Australia - Western Australia (DBCA-045)	No	No – the closest wetlands (Multiple Use) are located approximately 19 km west of the project.
Soil Landscape Land Quality	DPIRD Soil landscape land quality - Land Instability Risk (DPIRD-042)	Yes	No - The Site footprint is in an area where <3% of map unit has a moderate to high hazard of land instability.
Aboriginal Heritage Places	Department of Planning, Lands and Heritage (DPLH) Aboriginal Heritage Places (DPLH-001)	No	No – the nearest registered heritage site (Middle Creek (ID 16009)) is located approximately 3.3 km southeast of the Site.
Threatened and Priority Flora WA	DBCA Threatened and Priority Flora (DBCA-036)	No	No – the closest threatened/ priority flora is threatened/ Priority 3 flora species 2 km southwest of the Site.
Threatened and Priority Fauna WA	DBCA Threatened and Priority Fauna (DBCA-037)	No	No – the closest fauna record is a threatened/ endangered bird species approximately 650 m southeast of the Site.
Threatened Ecological Communities (TEC)	DBCA Threatened Ecological Communities (DBCA-038)	No	No – the closest TEC is approximately 12.5 km southwest of the Site.

Aspect	Information source	Presence/relevance to the Project	Potential trigger for State/Commonwealth approvals
Protected Matters SearchTool (PMST)	Federal Department of Agriculture, Water and the Environment (DAWE) <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)	Unlikely	<p>No potential triggers for Commonwealth referral has been identified – see Attachment 1 for PMST Report.</p> <p>The following Matter of National Environmental Significance (MNES) may occur in, or may relate to, a 5 km radial buffer around the Site:</p> <ul style="list-style-type: none"> – One National Heritage Place located approximately 600 m south-east of the Site – 18 Threatened Species – 9 Migratory species <p>Given the project footprint is 69 m², with only 19.5m² of clearing proposed, the project is unlikely to cause a significant impact on MNES.</p>
Naturemap (State)	-	Yes – NVCP required for clearing of native vegetation	<p>No potential trigger for State referral was identified – see Attachment 2 for Naturemap Report.</p> <p>A Naturemap search was conducted around the project with a 5 km buffer. The results identified:</p> <ul style="list-style-type: none"> – 5,259 records of 168 animalia species were identified – 51 records of 16 fungi species were identified – 346 records of 235 plantae species were identified – No records of Threatened or Priority flora or fauna within the project. <p>Given the Site footprint is 69m², with only 19.5m² of clearing proposed, the project is unlikely to significantly impact environmental factors.</p>

Aspect	Information source	Presence/relevance to the Project	Potential trigger for State/Commonwealth approvals
Dieback	Dieback Information Delivery and Management System (DIDMS)	Possible	No Dieback is reported within the Site, however it is reported approximately 500m NE of the Site, Dieback may be prevalent in the area. Suitable hygiene procedures should be followed.
Acid Sulfate Soils	Australian Soil Resource Information System (ASRIS) – Acid Sulfate Soils Map	Unlikely	C4 – Extremely Low Probability
Contaminated Sites	DWER Contaminated Sites Database	Unlikely	No recorded Contaminated Sites within 5km

4 Assessment against the ten clearing principles

In Western Australia, the Department of Water and Environmental Regulation (DWER) regulates native vegetation clearing under Part V of the EP Act, unless the proposal is formally assessed by the Environment Protection Authority (EPA) or a clearing permit exemption applies. The clearing of native vegetation in Western Australia requires a permit under Part V of the EP Act. Due to the small Site footprint and no identified potentially significant impacts to the environment, the project does not trigger the need for formal assessment by the EPA and no exemption applies.

An assessment of the Site area against the ten clearing principles outlined in Schedule 5 of the EP Act was undertaken with reference to DWER guidelines *A guide to the assessment of applications to clear native vegetation under Part V Division 2 of the EP Act* (DER 2014).

The assessment of the Site area against the ten clearing principles concluded the proposed clearing is not at variance with any of the principles.

Given the very limited extent of proposed clearing (19.5 m², 0.002 ha), the location of clearing in relation to other existing disturbances (e.g. roads and completely disturbed land), and proposed mitigation measures (Section 5), the potential impacts of the clearing is not considered environmentally significant.

The project is considered 'not at variance' or 'unlikely to be at variance' to the ten clearing principles given the location of the project footprint in relation to existing disturbance/infrastructure, the extent of proposed clearing (19.5 m²), and the surrounding environmental setting.

5 Avoidance and mitigation measures

Western Power are committed to implementing the following avoidance measures:

- Horizontal drilling to install the underground distribution line to minimise clearing of native vegetation (see blue area in Figure 1). Clearing for horizontal drilling will be limited to a 1 m x 2 m pit at launching location (within the customer property) and a 1.5 m x 1 m pit at receival location (roadside).
- Use of existing cleared areas (tracks, roads) where practicable, to access the site and undertake works.

Western Power are committed to implementing the following mitigation measures:

- Clearing areas will be clearly demarcated on site prior to the commencement of clearing
- Implementation of weeds hygiene protocol during construction, including cleaning of vehicles, heavy equipment, tools and footwear prior to entry and exit from vegetated areas
- Limit vehicle speeds within the project footprint to minimise the risk of fauna strike.

6 Conclusion

The total Site footprint is 69 m², within which very little native vegetation is present which could be impacted by project works. The project is considered 'not at variance' or 'unlikely to be at variance' with any of the ten principles.

The project is considered unlikely to significantly impact the environment given the location of the project footprint in relation to existing disturbance/infrastructure and the small extent of proposed clearing required.

7 References

Department of Agriculture, Water and the Environment (DAWE) 2021, *Environmental Protection and Biodiversity Conservation Act 1999 Protected Matters Search Tool Results*, retrieved February 2021 from <http://www.environment.gov.au/epbc/pmst/index.html>.

Department of Biodiversity, Conservation and Attractions (DBCA) 2007–, *NatureMap: Mapping Western Australia's Biodiversity*, retrieved February 2021, from <https://naturemap.dpaw.wa.gov.au/default.aspx>

Department of Environment Regulation (DER) 2014, *A guide to the assessment of applications to clear native vegetation under Part V Division 2 of the EP Act*, Government of Western Australia, December 2014.

Government of Western Australia (GoWA) 2021, Data WA, retrieved February 2021, from <https://data.wa.gov.au/>

Attachment 1 – PMST Search Results

Attachment 2 – Naturemap Search Results

Figure 1 – Project Location

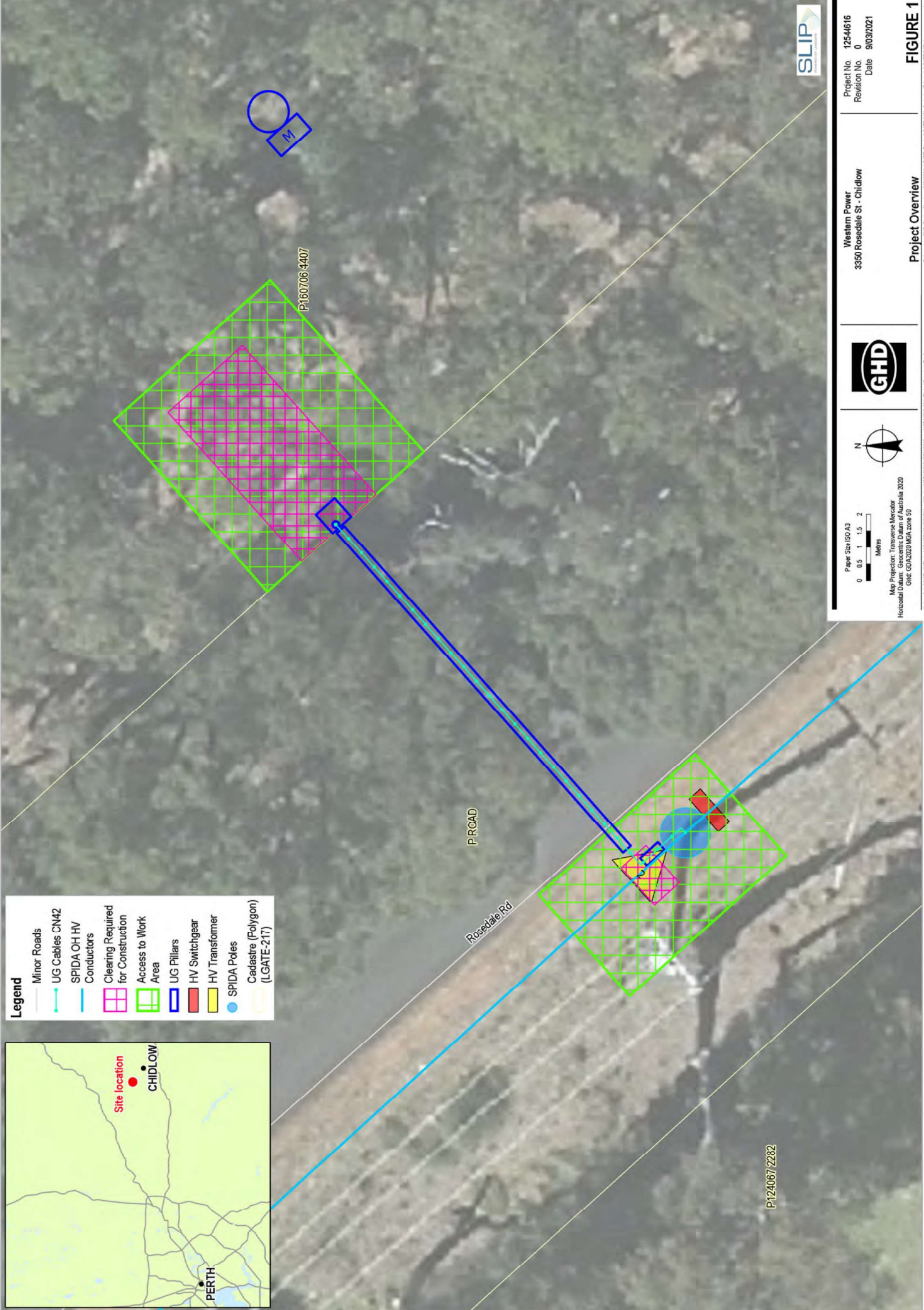
Figure 2 – Threatened Ecological Communities & Priority Flora & Fauna

Figure 3 – Area to be cleared at the base of Pole No. S383338

Figure 4 – Area to be disturbed on clients property



- Legend**
- Minor Roads
 - UG Cables CN42
 - SPIDA OH HV
 - Conductors
 - Clearing Required for Construction
 - Access to Work Area
 - UG Pillars
 - HV Switchgear
 - HV Transformer
 - SPIDA Poles
 - Cadastral (Folygon) (LGATE-217)



Project No. 1254616
Revision No. 0
Date 9/03/2021

Western Power
3350 Rosedale St - Chidlow



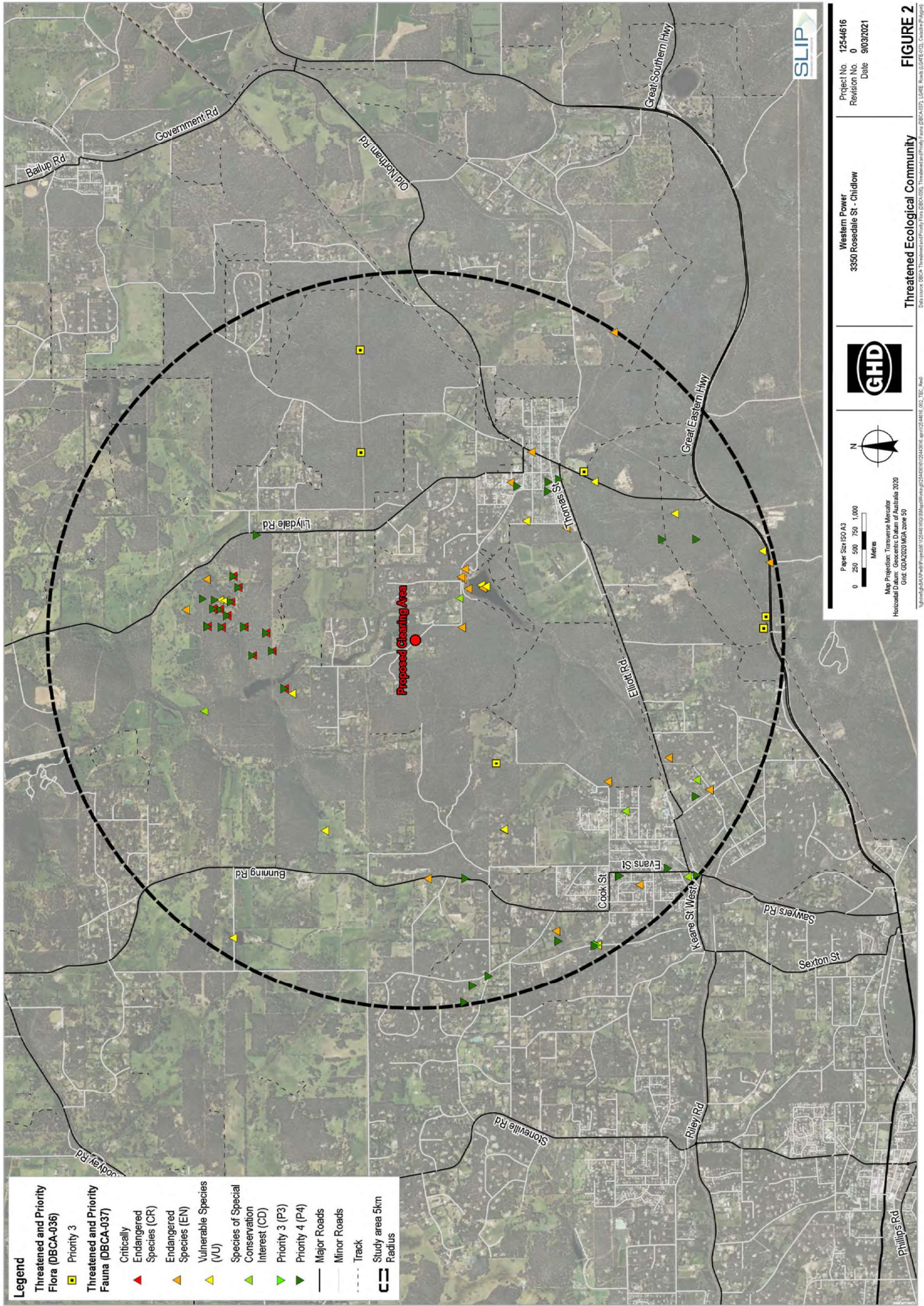
Paper Size ISO A3
0 0.5 1 1.5 2
Meters

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia, 2020
Grid: GDA2020/MGA zone 50

Project Overview

FIGURE 1

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Legend

Threatened and Priority Flora (DBCA-036)

- Priority 3

Threatened and Priority Fauna (DBCA-037)

- Critically Endangered Species (CR)
- Endangered Species (EN)
- Vulnerable Species (VU)

Species of Special Conservation Interest (CD)

- Priority 3 (P3)
- Priority 4 (P4)

Major Roads
Minor Roads
Track
Study area 5km Radius



Project No. 1254616
Revision No. 0
Date 9/03/2021

Western Power
3350 Rosedale St - Chidlow



Scale: 0 250 500 750 1,000 Metres

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia, 2020
GCR: GDA2020 MGA zone 50

Project No. 1254616 | Project Name: Western Power 3350 Rosedale St - Chidlow | Date: 9/03/2021 | Page: 2 of 2
Data source: BDC, Threatened and Priority Flora (DBCA-037), Priority 3 and 4 (DBCA-036), Threatened Ecological Communities (DBCA-038)



Figure 3 – Area to be cleared at the base of Pole No. S383338

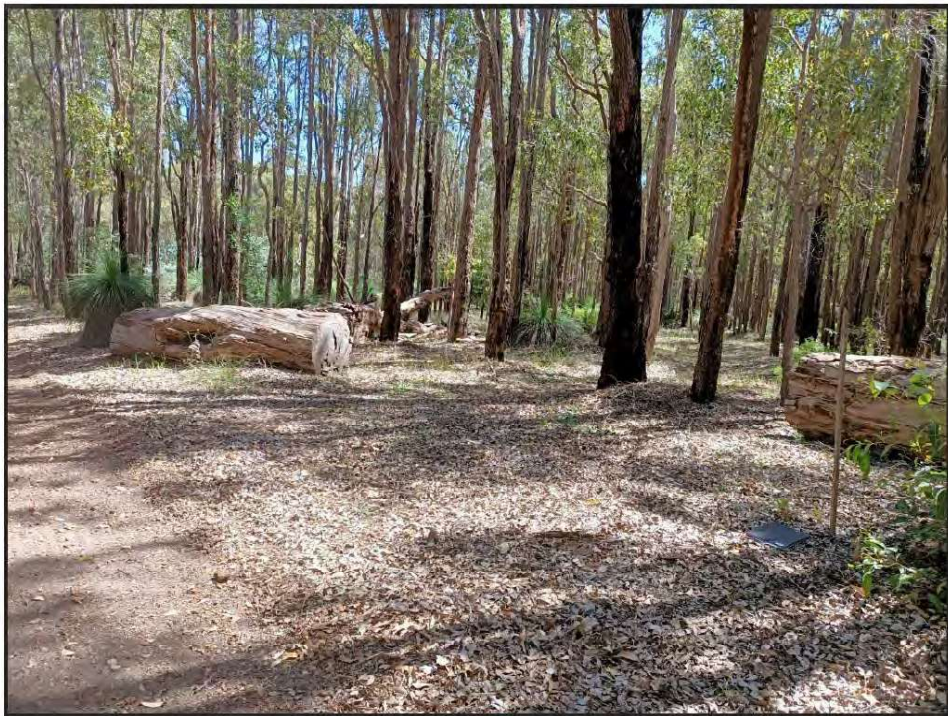


Figure 4 – Area to be disturbed on Clients Property



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: 26/02/21 18:05:31

[Summary](#)

[Details](#)

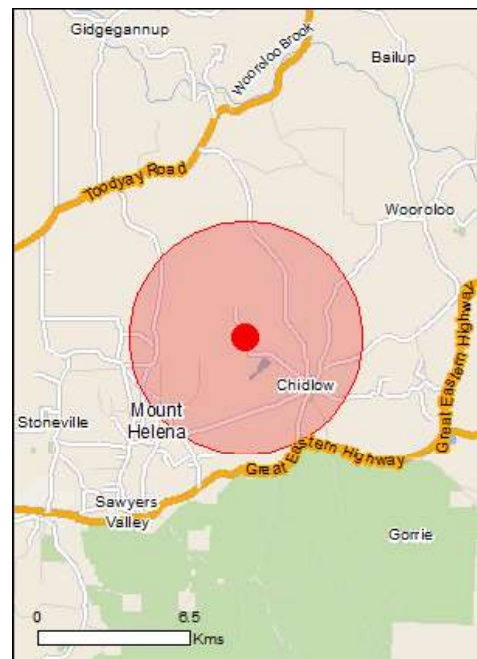
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are
©Commonwealth of Australia
(Geoscience Australia), ©PSMA 2015

[Coordinates](#)

Buffer: 5.0Km



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:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	18
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	2
Regional Forest Agreements:	1
Invasive Species:	28
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Historic		
Goldfields Water Supply Scheme, Western Australia	WA	Listed place

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Roosting known to occur within area
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Mammals		
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat known to occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat known to occur within area
Other		
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat may occur within area
Plants		

Name	Status	Type of Presence
Acacia aphylla Leafless Rock Wattle [13553]	Vulnerable	Species or species habitat likely to occur within area
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat may occur within area
Diplolaena andrewsii [6601]	Endangered	Species or species habitat may occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat may occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	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		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

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		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

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

Name	State
Karakamia	WA
Leschenaultia	WA

Regional Forest Agreements [\[Resource Information \]](#)

Note that all areas with completed RFAs have been included.

Name	State
South West WA RFA	Western Australia

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		
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
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area

Mammals

Name	Status	Type of Presence
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within

Name	Status	Type of Presence area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-31.8448 116.24416

Acknowledgements

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

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
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- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

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

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

NatureMap Species Report

Created By Guest user on 26/02/2021

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 116° 14' 39" E, 31° 50' 41" S
Buffer 5km
Group By Kingdom

Kingdom	Species	Records
Animalia	168	5259
Fungi	16	51
Plantae	235	346
TOTAL	419	5656

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
1.	24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
2.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
3.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
4.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
5.	25242 <i>Acanthophis antarcticus</i> (Southern Death Adder)		P3	
6.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
7.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
8.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
9.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
10.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
11.	25544 <i>Aegotheles cristatus</i> (Australian Owlet-nightjar)			
12.	24301 <i>Aegotheles cristatus subsp. cristatus</i> (Australian Owlet-nightjar)			
13.	<i>Aname mainae</i>			
14.	24312 <i>Anas gracilis</i> (Grey Teal)			
15.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
16.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
17.	25449 <i>Antechinus flavipes</i> (Yellow-footed Antechinus)			
18.	24088 <i>Antechinus flavipes subsp. leucogaster</i> (Yellow-footed Antechinus, Mardo)			
19.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
20.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
21.	24990 <i>Aprasia pulchella</i> (Granite Worm-lizard)			
22.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
23.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
24.	41324 <i>Ardea modesta</i> (great egret, white egret)			
25.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
26.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
27.	<i>Barnardius zonarius</i>			
28.	25452 <i>Bettongia penicillata</i> (Woylie, Brush-tailed Bettong)		T	
29.	24162 <i>Bettongia penicillata subsp. ogilbyi</i> (Woylie, Brush-tailed Bettong)		T	
30.	24319 <i>Biziura lobata</i> (Musk Duck)			
31.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
32.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
33.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
34.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
35.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
36.	24731 <i>Calyptorhynchus banksii subsp. naso</i> (Forest Red-tailed Black Cockatoo)		T	
37.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
38.	24734 <i>Calyptorhynchus latirostris</i> (Camaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
39.	48400 <i>Calyptorhynchus sp.</i> (white-tailed black cockatoo)		T	
40.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
41.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
42.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
43.	24288 <i>Circus approximans</i> (Swamp Harrier)			
44.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
45.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
46.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
47.	25592 <i>Corvus coronoides</i> (Australian Raven)			
48.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
49.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
50.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
51.	25456 <i>Crenadactylus ocellatus</i> (Clawless Gecko)			
52.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
53.	25401 <i>Crinia pseudinsignifera</i> (Bleating Froglet)			
54.	30893 <i>Cryptoblepharus buchananii</i>			
55.	25049 <i>Ctenotus labillardieri</i>			
56.	<i>Cyclosa trilobata</i>			
57.	24322 <i>Cygnus atratus</i> (Black Swan)			
58.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
59.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
60.	24092 <i>Dasyurus geoffroi</i> (Chuditch, Western Quoll)		T	
61.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
62.	24929 <i>Diplodactylus granariensis</i> subsp. <i>granariensis</i>			
63.	25096 <i>Egernia kingii</i> (King's Skink)			
64.	25100 <i>Egernia napoleonis</i>			
65.	<i>Egretta novaehollandiae</i>			
66.	<i>Elanus axillaris</i>			
67.	47937 <i>Eileyornis melanops</i> (Black-fronted Dotterel)			
68.	<i>Eolophus roseicapillus</i>			
69.	24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)			
70.	25109 <i>Eremiascincus richardsonii</i> (Broad-banded Sand Swimmer)			
71.	25621 <i>Falco bengora</i> (Brown Falcon)			
72.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
73.	25623 <i>Falco longipennis</i> (Australian Hobby)			
74.	24041 <i>Felis catus</i> (Cat)	Y		
75.	25727 <i>Fulica atra</i> (Eurasian Coot)			
76.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
77.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
78.	24959 <i>Gehyra variegata</i>			
79.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
80.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
81.	25408 <i>Heleioporus albopunctatus</i> (Western Spotted Frog)			
82.	25409 <i>Heleioporus barycragus</i> (Hooting Frog)			
83.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
84.	25411 <i>Heleioporus inornatus</i> (Whooping Frog)			
85.	25412 <i>Heleioporus psammophilus</i> (Sand Frog)			
86.	25474 <i>Hemiergis initialis</i>			
87.	25114 <i>Hemiergis initialis</i> subsp. <i>brookeri</i>			
88.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
89.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
90.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
91.	48588 <i>Isoodon fusciventer</i> (Quenda, southwestern brown bandicoot)		P4	
92.	<i>Isopedella cana</i>			
93.	25131 <i>Lerista distinguenda</i>			
94.	25005 <i>Lialis burtonis</i>			
95.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
96.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
97.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
98.	<i>Lophoictinia isura</i>			
99.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
100.	24168 <i>Macrotis lagotis</i> (Bilby, Dalgyte, Ninu)		T	
101.	25650 <i>Malurus elegans</i> (Red-winged Fairy-wren)			
102.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
103.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
104.	25663 <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
105.	24736 <i>Melopsittacus undulatus</i> (Budgerigar)			
106.	25184 <i>Menetia greyii</i>			
107.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)			
108.	<i>Microcarbo melanoleucos</i>			
109.	25693 <i>Microeca fascinans</i> (Jacky Winter)			
110.	<i>Missulena granulosa</i>			
111.	<i>Missulena hoggii</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
112.	25240 <i>Morelia spilota subsp. imbricata</i> (Carpet Python)			
113.	25192 <i>Morethia obscura</i>			
114.	24223 <i>Mus musculus</i> (House Mouse)	Y		
115.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
116.	48024 <i>Notamacropus eugenii subsp. derbianus</i> (Tammar Wallaby, Tammar)		P4	
117.	48022 <i>Notamacropus irma</i> (Western Brush Wallaby)		P4	
118.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			
119.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
120.	25253 <i>Parasuta gouldii</i>			
121.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
122.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
123.	<i>Perca fluviatilis</i>			
124.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
125.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
126.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
127.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
128.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
129.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
130.	48070 <i>Phascogale tapoatafa subsp. wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		S	
131.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
132.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
133.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
134.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
135.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
136.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
137.	24681 <i>Poliiocephalus poliocephalus</i> (Hoary-headed Grebe)			
138.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
139.	24166 <i>Pseudocheirus occidentalis</i> (Western Ringtail Possum, ngwayir)		T	
140.	25259 <i>Pseudonaja affinis subsp. affinis</i> (Dugite)			
141.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
142.	25263 <i>Pseudonaja modesta</i> (Ringed Brown Snake)			
143.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
144.	<i>Purpureicephalus spurius</i>			
145.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
146.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
147.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
148.	24145 <i>Setonix brachyurus</i> (Quokka)		T	
149.	30948 <i>Smicromis brevirostris</i> (Weebill)			
150.	24109 <i>Sminthopsis dolichura</i> (Little long-tailed Dunnart)			
151.	25515 <i>Sminthopsis griseoventer</i> (Grey-bellied Dunnart)			
152.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
153.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
154.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
155.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
156.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
157.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
158.	25204 <i>Tiliqua rugosa subsp. aspera</i>			
159.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
160.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
161.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
162.	24158 <i>Trichosurus vulpecula subsp. vulpecula</i> (Common Brushtail Possum)			
163.	24983 <i>Underwoodisaurus milii</i> (Barking Gecko)			
164.	<i>Urodacus novaehollandiae</i>			
165.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
166.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
167.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
168.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereeye)			

Fungi

169.	48636 <i>Amanita djarilmari</i>			
170.	<i>Austrogautieria manjimupana</i>			
171.	<i>Boletellus obscurecoccineus</i>			
172.	38874 <i>Cortinarius globuliformis</i>			
173.	44754 <i>Funnelliformis caledonium</i>			
174.	<i>Hysterangium affine</i>			
175.	44926 <i>Ileodictyon gracile</i>			
176.	47233 <i>Mesophellia angustispora</i>			
177.	<i>Phytophthora cinnamomi</i>			
178.	48703 <i>Russula balpinea</i>			
179.	48705 <i>Russula boranupensis</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
180.	48707	<i>Russula costatispora</i>			
181.	48733	<i>Russula pisiglarea</i>			
182.	48777	<i>Russula sessilis</i>			
183.	38840	<i>Stereum hirsutum</i>			
184.		<i>Uromycladium tepperianum</i>			
Plantae					
185.	3220	<i>Acacia aphylla</i> (Leafless Rock Wattle)		T	
186.	15469	<i>Acacia barbinervis</i> subsp. <i>barbinervis</i>			
187.	11661	<i>Acacia drummondii</i> subsp. <i>drummondii</i>			
188.	3331	<i>Acacia extensa</i> (Wiry Wattle)			
189.	3454	<i>Acacia nervosa</i> (Rib Wattle)			
190.	15483	<i>Acacia pulchella</i> var. <i>pulchella</i>			
191.	3515	<i>Acacia restiacea</i>			
192.	30033	<i>Acacia saligna</i> subsp. <i>lindleyi</i>			
193.	14970	<i>Adenanthos barbiger</i>			
194.	11336	<i>Adenanthos cygnorum</i> subsp. <i>chamaephyton</i>		P3	
195.	23474	<i>Agrostocrinum hirsutum</i>			
196.	185	<i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
197.	1732	<i>Allocasuarina humilis</i> (Dwarf Sheoak)			
198.	2648	<i>Alternanthera denticulata</i> (Lesser Joyweed)			
199.	197	<i>Amphipogon debilis</i>			
200.	11434	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
201.	7838	<i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
202.	20350	<i>Astartea affinis</i> (West-coast Astartea)			
203.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
204.	17240	<i>Austrostipa flavescens</i>			
205.	36441	<i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
206.	32678	<i>Banksia bipinnatifida</i> subsp. <i>bipinnatifida</i>			
207.	32577	<i>Banksia dallanneyi</i> subsp. <i>dallanneyi</i> var. <i>mellicula</i>			
208.	1819	<i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
209.	32080	<i>Banksia sessilis</i> var. <i>sessilis</i>			
210.	32045	<i>Banksia squarrosa</i> subsp. <i>squarrosa</i>			
211.	32315	<i>Barbula calycina</i>			
212.	741	<i>Baumea articulata</i> (Jointed Rush)			
213.	743	<i>Baumea juncea</i> (Bare Twigrush)			
214.	25788	<i>Billardiera fraseri</i> (Elegant Pronaya)			
215.	7856	<i>Blennospora drummondii</i>			
216.	4432	<i>Boronia ovata</i>			
217.	11564	<i>Boronia ramosa</i> subsp. <i>ramosa</i>			
218.	48782	<i>Bossiaea angustifolia</i>			
219.	3714	<i>Bossiaea ornata</i> (Broad Leaved Brown Pea)			
220.	3717	<i>Bossiaea pulchella</i>			
221.	7878	<i>Brachyscome iberidifolia</i>			
222.	245	<i>Briza minor</i> (Shivery Grass)	Y		
223.	12770	<i>Burchardia congesta</i>			
224.	15348	<i>Caladenia flava</i> subsp. <i>flava</i>			
225.	15377	<i>Caladenia reptans</i> subsp. <i>reptans</i>			
226.	15398	<i>Caladenia xantha</i>			
227.	5429	<i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
228.		<i>Calytrix</i> sp.			
229.	32338	<i>Campylopus introflexus</i>	Y		
230.	11501	<i>Cassytha glabella</i> forma <i>casuarinae</i>			
231.	32462	<i>Ceratodon purpureus</i> subsp. <i>convolutus</i>			
232.	11299	<i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
233.	3169	<i>Cheiranthra preissiana</i>			
234.	763	<i>Chorizandra enodis</i> (Black Bristlerush)			
235.	4550	<i>Comesperma calymega</i> (Blue-spike Milkwort)			
236.	4564	<i>Comesperma virgatum</i> (Milkwort)			
237.	12035	<i>Conostylis caricina</i> subsp. <i>caricina</i>			
238.	1453	<i>Conostylis serrulata</i>			
239.	11597	<i>Conostylis setigera</i> subsp. <i>setigera</i>			
240.	17104	<i>Corymbia calophylla</i> (Marri)			
241.	13354	<i>Craspedia variabilis</i>			
242.	13826	<i>Cyanicula ixioides</i> subsp. <i>ixioides</i>		P4	
243.	768	<i>Cyathochaeta avenacea</i>			
244.	283	<i>Cynodon dactylon</i> (Couch)	Y		
245.	783	<i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
246.	7420	<i>Dampiera alata</i> (Winged-stem Dampiera)			
247.	7454	<i>Dampiera linearis</i> (Common Dampiera)			
248.	6960	<i>Datura ferox</i> (Fierce Thomapple)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
		Y		
249.	19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
250.	3835 <i>Daviesia preissii</i>			
251.	17691 <i>Desmocladius fasciculatus</i>			
252.	11636 <i>Dianella revoluta</i> var. <i>divaricata</i>			
253.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
254.	1287 <i>Dichopogon capillipes</i>			
255.	11049 <i>Diuris corymbosa</i>			
256.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
257.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
258.	48767 <i>Drosera magna</i>			
259.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
260.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			
261.	45244 <i>Ericomyrtus serpyllifolia</i>			
262.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
263.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
264.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
265.	4624 <i>Euphorbia dendroides</i>	Y		
266.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
267.	32370 <i>Funaria hygrometrica</i>			
268.	20513 <i>Gastrolobium dilatatum</i>			
269.	3905 <i>Gastrolobium hookeri</i>			
270.	19733 <i>Gastrolobium retusum</i>			
271.	3933 <i>Gastrolobium villosum</i> (Crinkle-leaved Poison)			
272.	33620 <i>Glischrocaryon angustifolium</i>			
273.	3951 <i>Gompholobium marginatum</i>			
274.	3954 <i>Gompholobium polymorphum</i>			
275.	3955 <i>Gompholobium preissii</i>			
276.	29362 <i>Goodenia coerulea</i>			
277.	14421 <i>Grevillea synapheae</i> subsp. <i>synapheae</i>			
278.	1465 <i>Haemodorum discolor</i>			
279.	1468 <i>Haemodorum laxum</i>			
280.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
281.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
282.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
283.	439 <i>Hemarthria uncinata</i> (Matgrass)			
284.	6838 <i>Hemiantra linearis</i> (Speckled Snakebush)			
285.	1526 <i>Hesperantha falcata</i>	Y		
286.	5109 <i>Hibbertia amplexicaulis</i>			
287.	5114 <i>Hibbertia commutata</i>			
288.	20051 <i>Hibbertia diamesogenos</i>			
289.	5134 <i>Hibbertia huegelii</i>			
290.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
291.	5139 <i>Hibbertia lasiopus</i> (Large Hibbertia)			
292.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
293.	3964 <i>Hovea chorizemifolia</i> (Holly-leaved Hovea)			
294.	12741 <i>Hyalosperma cotula</i>			
295.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
296.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
297.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
298.	912 <i>Isolepis cyperoides</i>			
299.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
300.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
301.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
302.	4025 <i>Jacksonia restioides</i>			
303.	4036 <i>Kennedia carinata</i>			
304.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
305.	12008 <i>Kickxia elatine</i> subsp. <i>crinita</i>	Y		
306.	11289 <i>Labichea lanceolata</i> subsp. <i>lanceolata</i>			
307.	3669 <i>Labichea punctata</i> (Lance-leaved Cassia)			
308.	18585 <i>Lagenophora huegelii</i>			
309.	11815 <i>Laxmannia grandiflora</i> subsp. <i>grandiflora</i>			
310.	7568 <i>Lechenaultia biloba</i> (Blue Leschenaultia)			
311.	936 <i>Lepidosperma leptostachyum</i>			
312.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
313.	940 <i>Lepidosperma pubisquameum</i>			
314.	944 <i>Lepidosperma scabrum</i>			
315.	<i>Lepidosperma</i> sp.			
316.	1078 <i>Leptocarpus coangustatus</i>			
317.	46375 <i>Leptocarpus decipiens</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
318.	6367 <i>Leucopogon capitellatus</i>			
319.	6436 <i>Leucopogon propinquus</i>			
320.	6439 <i>Leucopogon pulchellus</i> (Beard-heath)			
321.	6447 <i>Leucopogon strictus</i>			
322.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
323.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
324.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
325.	7402 <i>Lobelia gibbosa</i> (Tall Lobelia)			
326.	7406 <i>Lobelia rhombifolia</i> (Tufted Lobelia)			
327.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
328.	1228 <i>Lomandra hermaphrodita</i>			
329.	14542 <i>Lomandra micrantha</i> subsp. <i>micrantha</i>			
330.	1236 <i>Lomandra odora</i> (Tiered Matrush)			
331.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
332.	1245 <i>Lomandra spartea</i>			
333.	8564 <i>Lotus subbiflorus</i>	Y		
334.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
335.	18119 <i>Macrozamia fraseri</i>			
336.	33638 <i>Meionectes tenuifolia</i>		P3	
337.	5876 <i>Melaleuca aspalathoides</i>			
338.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
339.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
340.	19585 <i>Monotaxis grandiflora</i> var. <i>grandiflora</i>			
341.	6199 <i>Myriophyllum tillaeoides</i>			
342.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
343.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
344.	7346 <i>Opercularia echinocephala</i> (Bristly Headed Stink Weed)			
345.	36177 <i>Ornduffia albiflora</i>			
346.	527 <i>Paspalum dilatatum</i>	Y		
347.	1542 <i>Patersonia babianoides</i>			
348.	1551 <i>Patersonia pygmaea</i> (Pygmy Patersonia)			
349.	14433 <i>Patersonia rudis</i> subsp. <i>rudis</i>			
350.	6245 <i>Pentapeltis peltigera</i>			
351.	2262 <i>Persoonia elliptica</i> (Spreading Snottygobble)			
352.	2312 <i>Petrophile striata</i>			
353.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
354.	1172 <i>Philydrella drummondii</i>			
355.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
356.	11928 <i>Pimelea ciliata</i> subsp. <i>ciliata</i>			
357.	7303 <i>Plantago lanceolata</i> (Ribwort Plantain)	Y		
358.	6253 <i>Platysace filiformis</i>			
359.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
360.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
361.	110 <i>Potamogeton drummondii</i>			
362.	13255 <i>Pterochaeta paniculata</i>			
363.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
364.	32417 <i>Ptychostomum angustifolium</i>			
365.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
366.	15035 <i>Rhodanthe corymbosa</i>			
367.	40425 <i>Rytidosperma caespitosum</i>			
368.	7368 <i>Scabiosa atropurpurea</i> (Purple Pincushion)	Y		
369.	7602 <i>Scaevola calliptera</i>			
370.	7619 <i>Scaevola lanceolata</i> (Long-leaved Scaevola)			
371.	6263 <i>Schoenolaena juncea</i>			
372.	975 <i>Schoenus bifidus</i>			
373.	20663 <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
374.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
375.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
376.	4207 <i>Sphaerolobium medium</i>			
377.	9070 <i>Stackhousia pubescens</i> (Downy Stackhousia)			
378.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
379.	30278 <i>Stylidium androsaceum</i>			
380.	7702 <i>Stylidium ciliatum</i> (Golden Triggerplant)			
381.	7736 <i>Stylidium hispidum</i> (White Butterfly Triggerplant)			
382.	7768 <i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
383.	7781 <i>Stylidium pubigerum</i> (Yellow Butterfly Triggerplant)			
384.	7790 <i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
385.	25806 <i>Stylidium scariosum</i>			
386.	45593 <i>Stylidium tenue</i> subsp. <i>tenue</i> (Little Fountain Triggerplant)			
387.	23511 <i>Stylidium thesioides</i> (Delicate Triggerplant)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
388.	1260 <i>Stypantra glauca</i> (Blind Grass)			
389.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
390.	12914 <i>Synaphea decorticans</i>			
391.	2323 <i>Synaphea gracillima</i>			
392.	1036 <i>Tetraria octandra</i>			
393.	35579 <i>Tetraria</i> sp. Jarrah Forest (R. Davis 7391)			
394.	48342 <i>Tetratheca hirsuta</i> subsp. <i>hirsuta</i>			
395.	4540 <i>Tetratheca pilifera</i>		P3	
396.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			
397.	11143 <i>Thelymitra graminea</i>			
398.	1328 <i>Thysanotus dichotomus</i> (Branching Fringe Lily)			
399.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
400.	1351 <i>Thysanotus sparteus</i>			
401.	1354 <i>Thysanotus tenellus</i>			
402.	1357 <i>Thysanotus thyrsoides</i>			
403.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
404.	1483 <i>Tribonanthes longipetala</i> (Branching Tiurmdin)			
405.	8251 <i>Trichocline spathulata</i> (Native Gerbera)			
406.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
407.	7665 <i>Velleia trinervis</i>			
408.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
409.	15618 <i>Verticordia plumosa</i> var. <i>plumosa</i>			
410.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
411.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
412.	7389 <i>Wahlenbergia preissii</i>			
413.	1253 <i>Xanthorrhoea gracilis</i> (Graceful Grass Tree, Mimidi)			
414.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
415.	6283 <i>Xanthosia atkinsoniana</i>			
416.	6284 <i>Xanthosia candida</i>			
417.	6289 <i>Xanthosia huegelii</i>			
418.	6293 <i>Xanthosia singuliflora</i>			
419.	44861 <i>Xerochrysum macranthum</i>			

Conservation Codes

T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.