

Summary

Project Title: BGC Quarry Access realignment

Project Location: The project is located between Hidden Valley Retreat and Wanneroo Road in the City of Wanneroo. The project area is accessed via Hester Avenue in Neerabup, and is adjacent to and/or partly includes the existing BGC Quarry Access Road.

Area proposed to be cleared: The project area is 1.58 hectares (ha) in size and includes approximately 0.73 ha of the existing Quarry Access Road. The total clearing area is 0.85 ha in size (0.74 ha of native vegetation and 0.11 ha of revegetation).

Project purpose/ components: The purpose of the project is realign the Quarry Access Road. The BGC Quarry Access Road occurs adjacent to and/or partly within the project area for Stage 1 of the Mitchell Freeway Extension Project. In order to progress the proposed Mitchell Freeway interchange with Hester Avenue and Hester Avenue duplication (components of Stage 1 of the Mitchell Freeway Extension Project), the Quarry Access Road needs to be realigned.

The Quarry Access Road will be realigned largely adjacent to the existing Access Road and will utilise the existing Access Road where possible. During the realignment process the Quarry Access Road will be widened (average width of 20 meters (m)) and sealed.

Temporary clearing required: No

A Preliminary Clearing Impact Assessment (PCIA) of the project was undertaken. The PCIA outlines the key activities associated with the Quarry Access Road realignment project, the existing environment and an assessment of native vegetation clearing. This assessment provides an evaluation of the vegetation clearing impacts associated with the project using the Ten Clearing Principles and strategies used to manage vegetation clearing. This report is subject to, and must be read in conjunction with, the limitations set out in Section 1.4; and the assumptions and qualifications contained throughout the Report.

Key impact assessment points are listed below.

Key Clearing Impact Assessment Points

A desktop assessment against the Ten Clearing Principles determined that the project is at variance with Principle (a) and Principle (h). The project is not likely to be at variance to any of the other Principles.

The main native vegetation clearing impacts associated with this project are:

- The project will require clearing of remnant vegetation which is located within Neerabup National Park (Class A Reserve, R 27575) and the Bush Forever site No. 383 'Neerabup National Park, Lake Nowergup Nature Reserve and adjacent bushland, Neerabup'. Clearing for the project will result in the direct loss of 0.74 ha of vegetation within Neerabup National Park and Bush Forever site No. 383.
- The project will require clearing of 0.51 ha vegetation that is in *Very Good* to *Good* condition (Keighery 1994).
- There is 0.74 ha of *Banksia* woodland vegetation considered likely to be Priority 3 Priority Ecological Community (PEC) '*Banksia* dominated woodlands on the Swan Coastal Plain IBRA region' located within the project area.

- Individuals of two DPaW Priority-listed flora taxa will be required to be cleared within project area, including *Acacia benthamii* (Priority 2) and five individuals of *Jacksonia* sericea (Priority 4).
- The project will require clearing of vegetation located within an Environmentally Sensitive Area (ESA). This ESA is most likely associated with Neerabup National Park and Bush Forever site No. 383.

Consultation

Consultation with the Department of Environment Regulation (DER) is recommended to confirm if the Project will be at variance with Principle (a) and Principle (h), and therefore unable to be completed under Main Roads Statewide vegetation clearing permit (Purpose Permit CPS 818).

Consultation with the Department of Parks and Wildlife (DPaW) is recommended to confirm the occurrence of the '*Banksia* dominated woodlands on the Swan Coastal Plain IBRA region' Priority 3 PEC within the project area.

Consultation with Department of Agriculture and Food WA (DAFWA) is also recommended to discuss the Declared Pest, *Gomphocarpus fruticosus (Narrow leaf cotton bush), which was identified within the project area during the site visit.

Referrals and approvals

The project is unlikely to require referral to the Federal Department of Environment (DotE) under the *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act).

The project will likely require referral the Environmental Protection Authority (EPA) under the *Environmental Protection Act 1986*, due to the likely impact on conservation estate (Neerabup National Park). Furthermore, under Section 38 of the *Planning and Development Act 2005* all region planning schemes and amendments require referral to the EPA.

The project is likely to require referral to the Western Australian Planning Commission and City of Wanneroo. The project is located on land currently reserved as Parks and Recreation and designated as a Bush Forever site under the Metropolitan Region Scheme (MRS), and zoned as Regional Parks and Recreation under the City of Wanneroo Town Planning Scheme 2. An amendment to the MRS will most likely be required and should be submitted to WAPC for their consideration and approval. Under Section 38 of the Planning and Development Act 2005, all region scheme amendments require referral to the EPA.

Further studies

Consultation with the appropriate regulatory authorities is recommended prior to undertaking any further studies.

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1. Introduction

1.1 Background

The Mitchell Freeway provides the primary road access route from the City of Perth to the north-west corridor; however, the freeway currently terminates at Burns Beach Road. The freeway has been constructed in several stages since the 1960s, with further extensions and widening works planned. Further development of the freeway is now required to provide a more direct route for traffic in the far northern suburbs, take pressure off smaller local roads and facilitate residential and business development in the area.

The proposed Mitchell Freeway Extension Project will be constructed in three stages with Stage 1 planned for 2015-2017. The Stage 1 scope of works will include:

- Mitchell Freeway extension from Burns Beach Road to Hester Avenue.
- Grade separated interchanges (including road bridges) at Burns Beach Road, Neerabup Road and Hester Avenue.
- Principal Shared Path (PSP) on western side of the Mitchell Freeway extension from Burns Beach Road to Hester Avenue including a PSP bridge over Burns Beach Road.
- Underpasses at Currambine Station, Neerabup Road and Hester Avenue.
- Hester Avenue duplication from Hidden Valley Retreat to Wanneroo Road.
- Neerabup Road upgrade from Connolly Drive to Wanneroo Road connection to freeway.
- Wanneroo duplication from just south of relocated Flynn Drive to Hall Road.

As part of the Mitchell Freeway Extension Project related upgrade/development activities are also being investigated.

1.2 Assessment scope

This preliminary clearing impact assessment (PCIA) involved a desktop analysis of environmental aspects and impacts and an assessment of native vegetation clearing impacts for the realignment of the Quarry Access Road into Quinns Quarry, located on Hester Avenue in the City of Wanneroo. The study area is confined to a local area of a 10 km radius.

This PCIA also includes information from the Preliminary Environmental Impact Assessment (PEIA) for the project which involved a desktop assessment and site investigation (GHD 2014).

This PCIA report will be used by Main Roads determined whether further Clearing Impact Assessment (CIA) is necessary, the need to seek submissions and develop and obtain approvals from the Department of Environment Regulation (DER) for revegetation plans, vegetation management plans dieback management plans or offset proposals.

1.3 Project description

The Quinns Quarry (managed by BGC), located on Hester Avenue is an inert landfill facility that provides a number of services including: solid waste depot, disposal of special waste (asbestos), storage and treatment of top soil, treatment of green waste and screening of material. The Quarry is accessed from Hester Avenue via a single-carriage, sealed road that carries both light and heavy vehicles. The Quarry Access Road occurs adjacent to and/or partly within the project area for Stage 1 of the Mitchell Freeway Extension Project. In order to progress the proposed Mitchell Freeway interchange with Hester Avenue and Hester Avenue

duplication (components of Stage 1 of the Mitchell Freeway Extension Project), the Quarry Access Road needs to be realigned.

The Quarry Access Road will be realigned largely adjacent to the existing Access Road and will utilise the existing Access Road where possible. During the realignment process the Quarry Access Road will be widened (average width of 20 meters (m)) and sealed.

1.3.1 Project location

The project is located between Hidden Valley Retreat and Wanneroo Road in the City of Wanneroo. The project area is accessed via Hester Avenue in Neerabup, and is adjacent to and/or partly includes the existing BGC Quarry Access Road. The project area is 1.58 hectares (ha) in size and includes approximately 0.73 ha of the existing Quarry Access Road. The project area is shown in Figure 1 (Appendix A).

1.4 Limitations and assumptions

This report has been prepared by GHD for Main Roads Western Australia and may only be used and relied on by Main Roads Western Australia for the purpose agreed between GHD and the Main Roads Western Australia as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Main Roads Western Australia arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The site investigation was a preliminary assessment aimed at identifying the major ecological constraints within the project area; it was not a full flora and fauna assessment.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by Main Roads and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. It is assumed that the information provided by Main Roads WA and online database sources is both current and correct. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

2. Methodology

2.1 Preliminary desktop study

A preliminary assessment of the project area and an assessment of native vegetation clearing was undertaken by reviewing a number of government agency managed databases, viewing GIS shapefiles and consulting with relevant stakeholders where necessary.

The results of this assessment are presented in the PEIA for the project (GHD 2014) and provided in Appendix B.

2.1.1 Information sources for desktop assessment

The information sources utilised in the desktop assessment are detailed in Table 1.

Table 1 Desktop assessment information sources

Aspect	Information Source
Matters of National Environmental Significance	Environment Protection Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool for Matters of National Environmental Significance (DotE 2014a)
Reserves and conservation areas	Department of Parks and Wildlife (DPaW managed lands and waters (DPaW spatial dataset)
Environmentally Sensitive Areas (ESAs)	Native Vegetation Map Viewer (DER 2014)
Vegetation	Beard (1979) vegetation association mapping Heddle <i>et al.</i> (1980) vegetation complex mapping
Conservation significant ecological communities	EPBC Act Protected Matters Search Tool (DotE 2014a) NatureMap (DPaW 2007–) DPaW Threatened Ecological Community (TEC) and Priority Ecological Community (PEC) databases
Conservation significant flora and fauna	EPBC Act Protected Matters Search Tool (DotE 2014a) NatureMap (DPaW 2007–) DPaW Threatened and Priority Flora (TPFL) and the Western Australian Herbarium (WAHERB) databases
Wetlands	EPBC Act Protected Matters Search Tool (DotE 2014a) DoW Perth Groundwater Atlas (DoW 2014b) WetlandBase (DAFWA 2014)
Acid Sulphate Soils	Australian Soil Resource Information System (ASRIS 2014) Natural Resource Management SLIP (GoWA 2014)
Groundwater and surface waters	Natural Resource Management SLIP (GoWA 2014) Hydrological features (GoWA 2014) Department of Water (DoW) Geographic Data Atlas (DoW 2014a)

Clearing of native vegetation

Native vegetation describes all indigenous aquatic and terrestrial vegetation (living or dead). The term does not include vegetation that was intentionally sown, planted or propagated unless it was required under a statutory condition.

Apart from activities that are exempt under the clearing regulation (Section 5 – Prescribed Clearing), all native vegetation clearing completed by Main Roads WA will be undertaken using a permit.

3.1 Measures to avoid and minimise clearing

The project area is accessed via Hester Avenue in Neerabup, and is adjacent to and/or partly includes the existing quarry access road. The quarry access road will be realigned largely adjacent to the existing access road and will utilise the existing access road where possible minimise vegetation clearing.

3.2 Existing Vegetation Details

3.2.1 Project area vegetation description

Broad vegetation association

Beard (1979) mapping indicates that one vegetation association is present within the project area:

Low woodland; banksia (association 949).

The Heddle *et al.* (1980) mapping identified the following vegetation complex on Aeolian Deposits of the Swan Coastal Plain within the project area (GoWA 2000):

Spearwood Dunes

Cottesloe complex – central and south: Mosaic of woodland of Eucalyptus
gomphocephala and open forest of E. gomphocephala – E. marginata – E. calophylla
[now Corymbia calophylla]; closed heath on the Limestone outcrops.

Site vegetation types and condition

The type and condition of the vegetation within the project area was described during the site visit as part of the PEIA.

Banksia Woodland was the most dominant vegetation type within the project area occurring on the southern and western sides of the existing Access Road. This vegetation type was dominated by Banksia attenuata and B. menziesii, with scattered Eucalyptus marginata and Allocasuarina fraseriana trees over shrubland of Xanthorrhoea preissii, Hibbertia hypericoides and Acacia pulchella over an understory of Mesomelaena pseudostygia, Desmocladus flexuosus and Scaevola canescens. Areas within Neerabup National Park were rated as Very Good (3) to Good (4), and showed intact vegetation structure and evidence of minimal disturbance. Areas adjacent to the Access Road were rated as Degraded (5), and showed evidence of ongoing disturbance associated with the Access Road, including weed invasion, rubbish and dust.

The *Banksia* Woodland vegetation type aligned with Beard (1979) vegetation association 949: Low woodland; banksia, and potentially aligned with Gibson *et al.* (1994) Floristic Community Type (FCT) 28: Spearwood *Banksia attenuata* or *Banksia attenuata/Eucalyptus* woodlands.

The remainder of the project area included the existing Quinns Quarry Access Road, which was rated as *Completely Degraded* (6) and an area which had been previously cleared and subsequently revegetated with native species. This revegetated area occurred in the northern part of the project area, adjacent to the Access Road and was rated as *Degraded* (5).

3.2.2 Vegetation complexes and representation

The local and regional impacts on the loss of vegetation associations have been assessed using the mapped extent of the Beard (1979) vegetation associations within the project area.

The extent of Beard's (1979) vegetation associations have been determined by the state-wide vegetation remaining extent calculations maintained by the DPaW (latest update 2013 – GoWA 2013). As indicated in Table 2, the current extent of Beard (1979) vegetation association 949 is greater than 30 percent of the pre-European extent (considered to be the threshold level – Commonwealth of Australia 2001; EPA 2000) at the State, Interim Biogeographic Regionalisation for Australia (IBRA) bioregion, IBRA sub-region and local government authority (LGA) levels.

Table 2 Extent of Beard (1979) vegetation association within the project area (GoWA 2013)

Vegetation association	Scale	Pre-European extent (ha)	Current extent (ha)	Remaining (%)	Current extent in all DPaW managed lands (%)
Swan Coast Bioregion	al Plain IBRA	1,501,221.92	586,975.23	39.10	36.48
949	State: Western Australia	218,193.94	124,080.33	56.87	54.73
	IBRA Bioregion: Swan Coastal Plain	209,983.25	121,216.29	57.73	55.33
	IBRA Subregion: Perth	184,475.82	105,076.59	56.96	58.53
	LGA: City of Wanneroo	37,138.47	17,641.75	47.50	68.10

The Local biodiversity Program (2010, 2013) provides information on the extent of vegetation complexes mapped by Heddle *et al.* (1980) in the south west portion of Western Australia. As shown in Table 3, the current extent of Heddle *et al.* (1980) Cottesloe complex – central and south vegetation complex is greater than 30 percent of the pre-European extent on the Swan Coastal Plain and within the City of Wanneroo.

Table 3 Extent of Heddle *et al.* (1980) vegetation complex within the project area (Local Biodiversity Project 2010, 2013)

Vegetation complex	Scale	Pre-European extent (ha)	2013 extent (ha)	% of pre- European extent	% of pre-European extent with formal protection + BF
Cottesloe complex – central and south	Swan Coastal Plain	44,899.92	15,815.73	35.22	12.75
	City of Wanneroo	13,310	6,122.77	46.00	6.36

3.2.3 Conservation significant ecological communities

A search of the EPBC Act Protected Matters Search Tool (DotE 2014a) and DPaW Threatened Ecological Community (TEC) and Priority Ecological Community (PEC) databases identified the potential presence of three TECs and five PECs within 10 km of the project area. In addition a new PEC has been listed by DPaW, 'Banksia dominated woodlands on the Swan Coastal Plain IBRA region' (Priority 3), which may occur in the vicinity of the project area.

The likelihood of occurrence assessment conducted as part of the PEIA (GHD 2014) identified that the 'Banksia dominated woodlands on the Swan Coastal Plain IBRA region' Priority 3 PEC was likely to occur within the project area. This assessment took into account previous records and locations, habitats present within the project area and community requirements.

3.2.4 Flora diversity

A search of the *NatureMap* database (DPaW 2007–) identified 491 plant taxa, representing 93 families and 272 genera that have been previously recorded within 10 km of the project area.

A total of 47 flora taxa were recorded in the project area during the site visit. This total comprised 36 native taxa and 11 introduced taxa (GHD 2014). This total this does not represent a comprehensive list of all taxa occurring within the project area.

3.2.5 Conservation significant flora

Desktop searches of the EPBC Act Protected Matters database (DotE 2014a), DPaW NatureMap records (DPaW 2007–), DPaW Threatened and Priority Flora (TPFL) and the Western Australian Herbarium (WAHERB) databases identified the presence/potential presence of 29 conservation significant flora taxa within 10 km of the project area.

During the site visit two DPaW Priority-listed taxa were recorded within the project area:

- Acacia benthamii (Priority 2)
- Jacksonia sericea (Priority 4)

The likelihood of occurrence assessment (based on the range, habitat requirements and previous records of the species) conducted as part of the PEIA (GHD 2014) concluded that two conservation significant flora taxa have been recorded, three taxa are likely to occur, ten taxa could possibly occur, 13 taxa are unlikely to occur and one taxon is highly unlikely to occur in the project area.

3.3 Assessment against the 10 Clearing Principles

In assessing whether the project is likely to have a significant impact on the environment, the project was assessed against the Ten Clearing Principles (EP Act, Schedule 5).

This assessment has identified that the project is at variance with Principle (a) and Principle (h).

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity

Comments	Proposal is at variance to this Principle
Assessment	The project area is located within the Swan Coastal Plain IBRA bioregion, and Perth IBRA subregions (DotE 2014b). Broad scale vegetation mapping of the area undertaken by Beard (1979) identified the following vegetation association within the project area: • Low woodland; banksia (association 949).

Comments

Proposal is at variance to this Principle

The Heddle *et al.* (1980) mapping identified the following vegetation complex on Aeolian Deposits of the Swan Coastal Plain within the project area (GoWA 2000):

Spearwood Dunes

 Cottesloe complex – central and south: Mosaic of woodland of Eucalyptus gomphocephala and open forest of E. gomphocephala – E. marginata – E. calophylla [now Corymbia calophylla]; closed heath on the Limestone outcrops.

The extents of Beard (1979) association 949 and Heddle *et al.* (1980) vegetation complex Cottesloe complex – central and south are greater than 30 % of the pre-European extent at the State, IBRA region, IBRA sub-region and LGA scale (City of Wanneroo). Therefore they are above the 30% threshold level (Commonwealth of Australia 2001; EPA 2000).

The Project Area includes both remnant vegetation (0.74 ha) and cleared areas (0.84 ha). The results of the site visit indicates that the remnant vegetation within the project area consists of *Banksia* Woodland (0.74 ha) in *Very Good* (3) to *Good* (4) condition (Keighery 1994) and showed intact vegetation structure and evidence of minimal disturbance (GHD 2014). Areas adjacent to the Access Road were rated as *Degraded* (5), and showed evidence of ongoing disturbance associated with the Access Road, including weed invasion, rubbish and dust.

The remainder of the project area consists of the existing Quinns Quarry Access Road (rated as *Completely Degraded* (6)) and an area which had been previously cleared and subsequently revegetated with native species (rated as *Degraded* (5)). The *Banksia* Woodland vegetation type aligned with Beard (1979) vegetation association 949: Low woodland; banksia.

Overall the vegetation ranges in condition from *Completely Degraded* (6) to *Very Good* (3):

- Very Good (3) to Good (4) 0.51 ha
- Degraded (5) 0.28 ha
- Completely Degraded (6) 0.79 ha

A search of the EPBC Act Protected Matters Search Tool (DotE 2014a) and DPaW TEC and PEC databases identified the potential presence of three TECs and five PECs within 10 km of the project area. In addition a new PEC has been listed by DPaW, 'Banksia dominated woodlands on the Swan Coastal Plain IBRA region' (Priority 3), which may occur in the vicinity of the project area. The likelihood of occurrence assessment conducted as part of the PEIA (GHD 2014) identified that the 'Banksia dominated woodlands on the Swan Coastal Plain IBRA region' Priority 3 PEC was likely to occur within the project area. There is 0.74 ha of Banksia woodland vegetation considered likely to be this PEC located within the project area.

A search of the *NatureMap* database (DPaW 2007–) identified 491 plant taxa, representing 93 families and 272 genera that have been previously recorded within 10 km of the project area. A total of 47 flora taxa were recorded in the project area during the site visit, including 36 native taxa and 11 introduced

Comments

Proposal is at variance to this Principle

taxa (GHD 2014). This total this does not represent a comprehensive list of all taxa occurring within the project area.

Desktop searches of the EPBC Act Protected Matters database (DotE 2014a), DPaW NatureMap records (DPaW 2007–), DPaW Threatened and Priority Flora (TPFL) and the Western Australian Herbarium (WAHERB) databases identified the presence/potential presence of 29 conservation significant flora taxa within 10 km of the project area. During the site visit two DPaW Priority-listed taxa were recorded within the project area:

- Acacia benthamii (Priority 2)
- Jacksonia sericea (Priority 4)

The likelihood of occurrence assessment (based on the range, habitat requirements and previous records of the species) conducted as part of the PEIA (GHD 2014) concluded that two conservation significant flora taxa have been recorded, three taxa are likely to occur, ten taxa could possibly occur, 13 taxa are unlikely to occur and one taxon is highly unlikely to occur in the project area. The three species considered likely to occur include:

- Leucopogon sp. Yanchep (M. Hislop 1986) (Priority 3)
- Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) (Priority 1)
- Pimelea calcicola (Priority 3)

The project area is located within Neerabup National Park (Class A Reserve, R 27575) and within Bush Forever site No. 383 'Neerabup National Park, Lake Nowergup Nature Reserve and adjacent bushland, Neerabup'. Clearing for the project will result in the direct loss of 0.74 ha of vegetation within Neerabup National Park and Bush Forever site No. 383.

The project area is also located within an Environmentally Sensitive Area (ESA), which is most likely associated with Neerabup National Park and Bush Forever site No. 383.

Two broad fauna habitats associated with remnant vegetation were recorded within the project area, *Banksia* woodland and revegetation. The *Banksia* woodland is well represented in the immediate vicinity of the project area within Neerabup National Park and in the broader City of Wanneroo region.

Desktop searches (DotE 2014a, DPaW 2007–) identified 318 fauna species as previously recorded within 10 km of the project area, including 305 native and 13 introduced species. A total of 20 fauna species were recorded in the project area during the site visit. This total consisted of 18 birds and two mammals, of which 17 are native species and three are introduced species. All of these species have been previously recorded from the locality. No fauna species of conservation significance were recorded within the project area during the fauna field survey.

The project area contains *Banksia* spp. *Hakea* spp. and other proteaceous species that provide suitable foraging habitat for the conservation significant Black Cockatoo species. There is 0.74 ha of Banksia woodland foraging habitat within the project area. There is however no potential breeding habitat or suitable roosting habitat for Black Cockatoos within the project area.

Comments	Proposal is at variance to this Principle		
	The likelihood of occurrence assessment (based on the range, habitat requirements and previous records of the species) conducted as part of the PEIA (GHD 2014) concluded that eight conservation significant fauna species are considered likely to occur, five species are unlikely to occur and six species are highly unlikely to occur in with project area. The species likely to occur include:		
	 Carnaby's Black Cockatoo (Calyptorhynchus latirostris) 		
	Baudin's Black Cockatoo (Calyptorhynchus baudinii)		
	Rainbow Bee-eater (<i>Merops ornatus</i>)		
	Western Brush Wallaby (<i>Macropus irma</i>)		
	Carpet Python (Morelia spilota subsp. imbricata)		
	Black-striped Snake (Neelaps calonotos)		
	A native bee (Hylaeus globuliferus)		
	Graceful Sun Moth (Synemon gratiosa)		
	The project area is not likely to comprise a greater diversity than similar areas either locally or at a bioregional scale.		
	Based on desktop assessment, the project area is considered to be of high biodiversity due to the likely presence of the Priority 3 PEC (<i>Banksia</i> dominated woodlands on the Swan Coastal Plain IBRA region), the presence of two DPaW Priority-listed flora taxa and that the project area is located within Neerabup National Park and Bush Forever site No. 383. In addition, three DPaW Priority-listed flora taxa and eight conservation significant fauna species are considered likely to occur to occur within the project area. Therefore clearing of the vegetation within the project area is considered to be at variance to this principle.		
Methodology	GHD (2014)		
	DPaW databases (DPaW managed lands and waters)		
	NatureMap database (DPaW 2007-) - accessed April 2014		
	EPBC Act Protected Matters Search Tool (DotE 2014a)		
	IBRA (DotE 2014b)		
	Mapped pre-European vegetation (Beard 1979, Heddle <i>et al.</i> 1980 Shepherd <i>et al.</i> 2002, GoWA 2013)		
	TEC/PEC lists (DPaW 2013a; 2013b)		
	Bush Forever (GoWA 2000)		

(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia

Comments	Proposal is not likely to be at variance to this Principle
Assessment	Desktop searches (DotE 2014a, DPaW 2007–) identified 318 fauna species as

previously recorded within 10 km of the project area, including 305 native and 13 introduced species. A total of 20 fauna species were recorded in the project area during the site visit. This total consisted of 18 birds and two mammals, of which 17 are native species and three are introduced species. All of these species have been previously recorded from the locality. No fauna species of conservation significance were recorded within the project area during the fauna field survey.

Two broad fauna habitats associated with remnant vegetation were recorded within the project area, *Banksia* woodland and revegetation. The *Banksia* woodland is well represented in the immediate vicinity of the project area within Neerabup National Park and in the broader City of Wanneroo region.

The project area contains *Banksia* spp. *Hakea* spp. and other proteaceous species that provide suitable foraging habitat for the conservation significant Black Cockatoo species. There is 0.74 ha of *Banksia* woodland foraging habitat within the project area. There is however no potential breeding habitat or suitable roosting habitat for Black Cockatoos within the project area.

Desktop searches (DotE 2014a, DPaW 2007–) identified the presence/potential presence of 19 conservation significant fauna within 10 km of the project area. The likelihood of occurrence assessment (based on the range, habitat requirements and previous records of the species) conducted as part of the PEIA (GHD 2014) concluded that eight conservation significant fauna species are considered likely to occur, five species are unlikely to occur and six species are highly unlikely to occur in with project area. The species likely to occur include:

- Carnaby's Black Cockatoo (Calyptorhynchus latirostris)
- Baudin's Black Cockatoo (Calyptorhynchus baudinii)
- Rainbow Bee-eater (Merops ornatus)
- Western Brush Wallaby (Macropus irma)
- Carpet Python (Morelia spilota subsp. imbricata)
- Black-striped Snake (Neelaps calonotos)
- A native bee (Hylaeus globuliferus)
- Graceful Sun Moth (Synemon gratiosa)

The *Banksia* woodland habitat within the project area is represented locally (within Neerabup National Park) and regionally and therefore the above listed fauna species are unlikely to rely solely upon the habitats that occur with the project area. Clearing of the 0.74 ha of Black Cockatoo foraging habitat is unlikely to have a large impact on the three species of Black Cockatoos.

Overall, clearing of vegetation within the project area is not expected to adversely impact upon available fauna species habitat locally or regionally.

Methodology

GHD (2014)

EPBC Act Protected Matters Search (2014a)

NatureMap database (DPaW 2007-) - accessed April 2014

(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora

Comments	Proposal is not likely to be at variance to this Principle
Assessment	Desktop searches identified the presence/potential presence of 13 WC Act and or EPBC Act listed flora taxa within 10 km of the project area (DotE 2014a, DPaW 2007–).
	A likelihood of occurrence assessment, which takes into account the habitats present, known taxa distribution and previous records, was completed for the 13 threatened flora taxa identified in the desktop assessment. This assessment concluded that all taxa were unlikely to occur within the project area (GHD 2014).
Methodology	EPBC Act Protected Matters Search (DotE 2014a) NatureMap (DPaW 2007–)

(d) Native vegetation should not be cleared if it comprises the whole or part of, or if necessary for the maintenance of a threatened ecological community

Comments	Proposal is not likely to be at variance to this Principle
Assessment	Desktop searches (DotE 2014a) identified the potential presence of three TECs within 10 km of the project area.
	The likelihood of occurrence assessment conducted as part of the PEIA (GHD 2014) did not identify any of these TECs as being likely to occur within the project area.
Methodology	EPBC Act Protected Matters Search (DotE 2014a) TEC/PEC lists (DPaW 2013a; 2013b)

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared

Comments	Proposal is not likely to be at variance to this Principle
Assessment	The project area is located within the Swan Coastal Plain IBRA bioregion, and Perth IBRA subregions (DotE 2014b). Broad scale vegetation mapping of the area undertaken by Beard (1979) identified the following vegetation association within the project area:
	 Low woodland; banksia (association 949).
	The Heddle <i>et al.</i> (1980) mapping identified the following vegetation complex on Aeolian Deposits of the Swan Coastal Plain within the project area (GoWA 2000):
	Spearwood Dunes
	 Cottesloe complex – central and south: Mosaic of woodland of Eucalyptus gomphocephala and open forest of E. gomphocephala – E. marginata – E. calophylla [now Corymbia calophylla]; closed heath on the Limestone outcrops.
	The extents of Beard (1979) association 949 and Heddle <i>et al.</i> (1980) vegetation complex Cottesloe complex – central and south are greater than 30 percent of the pre-European extent at the State, IBRA region, IBRA sub-region and LGA scale (City of Wanneroo). Therefore they are above the 30 percent

threshold level (Commonwealth of Australia 2001; EPA 2000). Any clearing of vegetation association 949 or the Cottesloe complex – central and south within the project area will not reduce their pre-European extents to below 30 percent.

The project area occurs within the highly modified Perth metropolitan area and the vegetation associated with the project area occurs adjacent to the existing Quarry Access Road. Any clearing of the project area is not considered likely to further fragment adjacent vegetation.

Methodology

IBRA (DotE 2014b)

GHD (2014)

Mapped pre-European vegetation (Beard 1979, Heddle *et al.* 1980 Shepherd *et al.* 2002, GoWA 2013)

(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment with a watercourse or wetland

Comments	Proposal is not likely to be at variance to this Principle
Assessment	A search of the EPBC Act Protected Matters database indicates that no Ramsar or Internationally wetlands are present within 10 km of the project area. One Nationally Important Wetland, Joondalup Lake is located within 10 km of the project area. A search of the DoW Perth Groundwater Atlas and DAFWA WetlandBase indicates that there are no wetlands in the project area (DAFWA 2014). It is unlikely that the proposed works will impact any wetlands in the vicinity of the project area.
	No rivers or surface water bodies listed under the <i>Rights in Water and Irrigation Act 1914</i> (RIWI Act) were identified within the project area (DoW 2014a). There are no drainage lines or lakes in the project area (DoW 2014a). It is unlikely that the proposed works will disturb or interrupt any natural drainage and surface run-off patterns.
	No vegetation associated with watercourses or wetlands was recorded in the project area during the site visit.
	The project is not likely to be at variance to this principle as there is no vegetation growing in, or in association with, an environment with a watercourse or wetland within the project area.
Methodology	Department of Water Geographic data atlas (DoW 2014a)
	EPBC Act Protected Matters Search (DotE 2014a)
	GHD (2014)
	WetlandBase (DAFWA 2014)
	Department of Water Perth Groundwater Atlas (DoW 2014b)

(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation

Comments	Proposal is not likely to be at variance to this Principle
Assessment	The groundwater salinity in project area is relatively fresh, ranging from typically 200 to 1000 mg/L TDS. The Natural Resource Management Shared

Land Information Platform (SLIP) has mapped the salinity risk as '0-2% high to extreme hazard of salinity risk' (GoWA 2014). Native vegetation clearing in the project area is unlikely to increase salinity in the project area and surrounding areas.

The project area is located within the Gnangara Mound which is an important source of fresh groundwater in the Perth region, derived from the unconfined superficial aquifer. The Natural Resource Management SLIP has mapped the waterlogging risk as '0-2% moderate to very high hazard' and flooding risk as '0-2% Moderate to high hazard' (GoWA 2014). It is unlikely that clearing of native vegetation in the project area will increase waterlogging and flooding within and surrounding the project area. The risk of water erosion was mapped as '3-9% high to extreme hazard' for the majority of project area.

The project area consists of Spearwood Dunes and the Natural Resource Management SLIP has mapped the soils within the project area as:

- Karrakatta shallow soils Phase Rocky low hills and ridges on limestone in the Swan Coastal Plain with bare rock, yellow/brown shallow sands and stony soils.
- Karrakatta Sand Yellow Phase Undulating dunes on aeolian sand over limestone in the Swan Coastal Plain with yellow deep sands.

The sands within the project area are therefore relatively porous and well drained and therefore there is little overland surface water flow, which minimises the risk of water erosion.

The Natural Resource Management SLIP has mapped wind erosion risk as '30-49% high to extreme hazard' for the majority of the project area (shallow sands) and 70-100% high to extreme hazard' for the remaining areas (deeper sands) (GoWA 2014). The high sand content of the soils and ease with which these materials can be transported by the wind means there is a high risk of wind erosion in this area.

The ASS Swan Coastal Plain dataset did not identify any known ASS within the project area and the ASRIS database indicates that the area is classified as 'Extremely Low Probability of Occurrence' with a high degree of confidence (ASRIS 2014).

Given the small size of vegetation clearing (0.85 ha) required for the project, the project is unlikely to cause significant land degradation.

Methodology

Australia Soil Resource Information System (ASRIS 2014)

Natural Resource Management SLIP (GoWA 2014)

(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environment values of any adjacent or nearby conservation area

Comments	Proposal is at variance to this Principle
Assessment	The project area is located within Neerabup National Park (Class A Reserve, R 27575) and within Bush Forever site No. 383 'Neerabup National Park, Lake Nowergup Nature Reserve and adjacent bushland, Neerabup'. Clearing for the project will result in the direct loss of 0.74 ha of native vegetation within

Neerabup National Park and Bush Forever site No. 383.

Four other DPaW managed reserves are located within the vicinity of the project area:

- Neerabup Lake and adjacent bushland (approximately 500 m northeast of the project area).
- Neerabup Nature Reserve (approximately 3.5 km east of the project area).
- Gnangara–Moore River State Forest (approximately 5 km east of the project area).
- Lake Joondalup Nature Reserve (approximately 7.5 m south of the project area).

Locally, the habitat within the project area is connected to the east to the surrounding remnant vegetation within Neerabup National Park. This provides a linkage to the much larger linear vegetated corridor associated with Neerabup National Park and a number of Bush Forever sites. To the north, west and south, the project area is immediately bound by Hester Avenue, the railway and the Quarry. Any clearing of the project area is not considered to significantly impact or further fragment adjacent vegetation in Neerabup National Park and Bush Forever site No. 383. However, any clearing will result in the direct loss of native vegetation within these conservation areas.

At a larger scale, the areas of remnant *Banksia* woodland vegetation in and immediately surrounding the project area are part of a regionally significant contiguous bushland/wetland linkage (GoWA 2000). A large proportion of this vegetation is currently included as national park and a series of Bush Forever sites (GoWA 2000). There are several surrounding linkages and the habitat within Neerabup National Park (Bush Forever site 383) is linked to bushland to the north in Yanchep National Park, to the south to Bush Forever site 299 (across Wanneroo road) and to the east and west to Bush Forever Site 323 and through bushland to Bush Forever Site 397. The vegetation within project area also connected to Greenways 35, 2, 5 (Tingay, Alan and Associates 1998) and overall the Neerabup National Park provides a narrow corridor to allow movement of fauna along the coastal plain and associated wetlands. Although the project area contributes to local and regional ecological linkages, any clearing of the project area is not considered to result in a loss of connectivity function between these ecological linkages.

Weed incursion into Neerabup National Park and Bush Forever No. 383 was observed within the project area as a result of the existing Quarry Access Road. Any clearing of the project area is unlikely to increase the existing weed incursion into these conservation areas, but will most likely result in weed incursion occurring further east.

The project area is also located within an Environmentally Sensitive Area (ESA), which is associated with Bush Forever site No. 383.

The project area contains 0.74 ha of native vegetation that occurs within Neerabup National Park and Bush Forever site No. 383. Any clearing of the project area is not considered to significantly impact or further fragment these conservation areas or result in a loss of connectivity function between local and regional ecological linkages. However, clearing of the project area will result in the direct loss of native vegetation within these conservation areas.

Methodology DPaW database (DPaW managed lands and waters) Natural Resource Management SLIP (GoWA 2014) Bush Forever (GoWA 2000)

(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

to cause deterioration in the quality of surface of underground water.			
Comments	Project is not likely to be at variance to this Principle		
Assessment	The project area is located in the Perth <i>Rights in Water and Irrigation Act 1914</i> (RIWI Act) Groundwater Area and the Perth Coastal and Gwelup Underground Water Pollution Control Area Public Drinking Water Source Area (PDWSA), which is a Priority 3 Protection Zone. Priority 3 areas are declared over land where water supply sources need to coexist with other land uses such as residential, commercial and light industrial developments. Groundwater in the region is inferred as flowing in a westerly direction beneath the project area. No dewatering is expected for the project and it is unlikely that the proposed works will impact upon groundwater.		
	No rivers or surface water bodies listed under the RIWI Act were identified within the project area (DoW 2014a). There are no drainage lines or lakes in the project area (DoW 2014a). It is unlikely that the proposed works will disturb or interrupt any natural drainage and surface run-off patterns due to the deep sandy soils present in the area.		
	A search of the DoW Perth Groundwater Atlas and DAFWA WetlandBase indicates that there are no wetlands in the project area (DAFWA 2014). The nearest wetland is located approximately 2 km east of the project area (Neerabup Lake). It is unlikely that the proposed works will impact any wetlands in the vicinity of the project area.		
	There are no Environmental Protection Policy (EPP) lakes protected under the <i>Environmental Protection (Swan Coastal Plain Lakes) Policy 1992</i> within the project area. There are however several EPP Lakes located within proximity to the project area. The nearest EPP lake is located approximately 2 km east of the project area (Neerabup Lake) and therefore no direct impacts are expected to occur to any EPP lakes as a result of the proposed project.		
	The ASS Swan Coastal Plain dataset did not identify any known ASS within the project area and the ASRIS database indicates that the area is classified as 'Extremely Low Probability of Occurrence' with a high degree of confidence (ASRIS 2014). Native vegetation clearing in the project area is unlikely to result in ASS. There are also no known contaminated sites are present within or immediately adjacent to the project area		
	The Natural Resource Management Shared Land Information Platform (SLIP) has mapped the salinity risk as '0-2% high to extreme hazard of salinity risk' (GoWA 2014). Native vegetation clearing in the project area is unlikely to increase salinity in the project area and surrounding areas.		
	The Natural Resource Management SLIP mapped the phosphorus export risk as '3-9% high to extreme hazard' for project area. The quality of surface and underground water in areas surrounding the project area are unlikely to be impacted as a result of native vegetation clearing in the project area.		

Clearing is not likely to significantly increase surface water runoff due to the porosity of the soils in the area. There are no watercourses or wetlands within the project area; with the closest wetland, Neerabup Lake, located approximately 2 km east. It is unlikely that clearing of the vegetation within the project area will result in any indirect impacts to this wetland, such as changes to hydrology and changes to surface water flows to this wetland. The project is not likely to be at variance to this principle as clearing of the 0.85 ha of vegetation is unlikely to cause deterioration in the quality of surface or underground water.
Natural Resource Management SLIP (GoWA 2014) Australia Soil Resource Information System (ASRIS 2014) Department of Water Geographic Data Atlas (DoW 2014a) Department of Water Perth Groundwater Atlas (DoW 2014b)

(j) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding

Comments	Project is not likely to be at variance to this Principle
Assessment	The soils of the project area are sandy and porous and the area is generally well-drained. No wetlands, watercourses or areas subject to inundation are located within the project area. In addition the clearing area is relatively small (0.85 ha) compared to the size of the catchment zone.
	It is unlikely that the removal of vegetation proposed for this project would cause or exacerbate the incidence or intensity of flooding in the local area.
	The project area is unlikely to be susceptible to waterlogging due to the highly porous nature of the soils in the area and clearing is unlikely to cause or exacerbate waterlogging within the project area.
Methodology	Natural Resource Management SLIP (GoWA 2014)
	Department of Water Geographic Data Atlas (DoW 2014a)

4. Additional actions required

The following table (Table 4) summarises what further clearing impact assessment and vegetation management is required in accordance with Main Roads State-wide vegetation Clearing Permit (CPS 818).

Table 4 Summary of Additional Management Actions Required by Permit CPS818

Impact of Clearing	Yes/No or NA	Further Action Required
1. The PCIA indicates that the clearing is 'Seriously at Variance', At Variance' or 'May be at Variance' with one or more of the clearing principles.	Yes	 Submissions are required to be sought from relevant parties. A CIA is required to be undertaken (see condition 6(n)). A Vegetation Management Plan (VMP) is required to be approved by DER. The VMP must be approved prior to undertaking clearing of the area to which the VMP is related An offset proposal is required to be approved by DER. The offset proposal must be approved prior to undertaking clearing of the area to which the offset is related.
2. The PCIA indicates that the clearing is at variance or may be at variance with clearing principle (g) land degradation, (i) surface or underground water quality or (j) the incidence of flooding.	No	No further action required.
3. The project involves clearing for temporary works (as defined by the permit in under Condition 11 of CPS 818).	No	No further action required.
4a. The project is in part of a region that has annual rainfall greater than 400 mm and is south of the 26th parallel of latitude.	Yes	If yes, go to number 4b.
4b. The project will require movement of soil in conditions other than dry conditions.	No	No further action required.

5. Stakeholder consultation

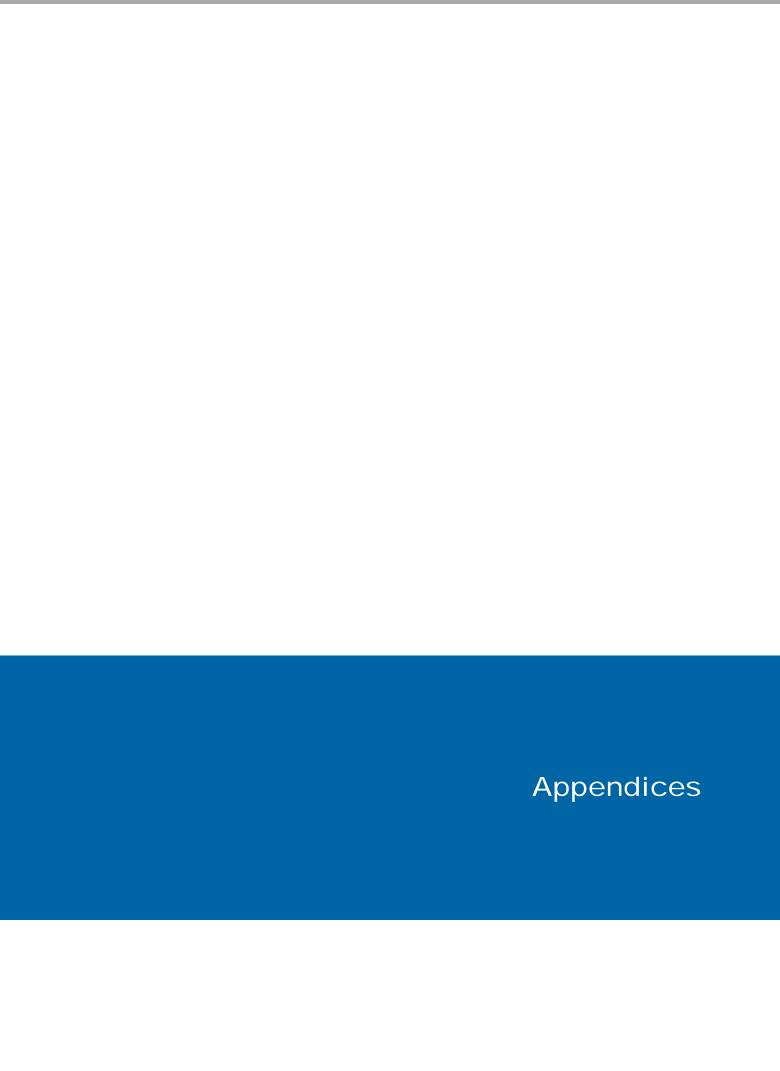
It's understood Main Roads has consulted with DPaW and the Conservation Commission about the relocation of the Access Road with the Neerabup National Park. Further stakeholder consultation will be required prior to native vegetation clearing and the implementation of the project. Recommended stakeholder consultation includes:

- DPaW to confirm the occurrence of the 'Banksia dominated woodlands on the Swan Coastal Plain IBRA region' Priority 3 PEC within the project area that considered likely to occur based on the desktop study and site visit.
- DAFWA to discuss Declared Pest, *Gomphocarpus fruticosus (Narrow leaf cotton bush), which was identified within the project area during the site visit.
- BGC (Quinns Quarry) to discuss project timeframes and alternate traffic flow options during construction of the project.

References

- Australian Soil Resource Information System (ASRIS) 2014, *Australian Soil Resource Information Viewer*, retrieved March 2014, from http://www.asris.csiro.au/index ie.html
- Beard, JS 1979, Vegetation Survey of Western Australia: Perth Map and Explanatory Memoir 1:250,000 series, Perth, Vegmap Publications.
- Commonwealth of Australia 2001, *National Targets and Objectives for Biodiversity Conservation* 2001–2005, Canberra, AGPS.
- Department of Agriculture and Food WA (DAFWA) 2014, WetlandBase: The Western Australian Wetlands Database, retrieved April 2014, from http://spatial.agric.wa.gov.au/wetlands/framesetup.asp.
- Department of Environment Regulation (DER) 2014, *Native Vegetation Map Viewer*, retrieved April 2014, from http://maps.dec.wa.gov.au/idelve/nv/index.jsp
- Department of Parks and Wildlife (DPaW) 2007–, *NatureMap: Mapping Western Australia's Biodiversity:* V 1.5.1.8 (last updated 01/06/2013), retrieved April 2014, from http://naturemap.dec.wa.gov.au/.
- Department of Parks and Wildlife (DPaW) 2013a, *Priority ecological communities for Western Australia*, Version 19, September 2013.
- Department of Parks and Wildlife (DPaW) 2013b, List of Threatened Ecological Communities endorsed by the Western Australian Minister for the Environment, May 2013.
- Department of the Environment (DotE) 2014a, *Protected Matters Search Tool Results*, retrieved April 2014, from http://www.environment.gov.au/epbc/pmst/index.html.
- Department of the Environment (DotE) 2014b, *Interim Biogeographic Regionalisation for Australia, Version 7, In: Australia's bioregions (IBRA),* retrieved April 2014, from http://www.environment.gov.au/parks/nrs/science/bioregionframework/ibra/index.html.
- Department of Water (DoW) 2014a, *Geographic Data Atlas*, retrieved April 2014, from http://www.water.wa.gov.au/idelve/dowdataext/index.jsp.
- Department of Water (DoW) 2014b, *Perth Groundwater Atlas*, retrieved April 2014, from http://www.water.wa.gov.au/idelve/gwa/.
- Environmental Protection Authority (EPA) 2000, Environmental Protection of Native Vegetation in Western Australia. Clearing of native vegetation, with particular reference to the agricultural area. Position Statement No. 2, Perth, Environmental Protection Authority.
- GHD 2014, Preliminary Environmental Impact Assessment for BGC Quarry Access
 Realignment, unpublished report prepared for Main Roads Western Australia
- Government of Western Australia (GoWA) 2013, 2013 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report), Current as of June 2013, WA Department of Parks and Wildlife, Perth, retrieved April 2014, from https://www2.landgate.wa.gov.au/web/guest/downloader.
- Government of Western Australia (GoWA) 2014, *Shared land Information Platform: WA Atlas*, retrieved April 2014, from https://www2.landgate.wa.gov.au/bmvf/app/waatlas/.
- Government of Western Australia 2000, Bush Forever Keeping the Bush in the City. Volumes 1 (Policies, Principals and Processes) & 2 (Directory of Bush Forever Sites), Perth, Government of Western Australia.

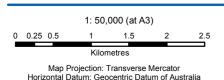
- Heddle, EM, Loneragan, OW and Havel, JJ 1980, *Vegetation Complexes of the Darling System, Western Australia*, In Atlas of Natural Resources, Darling System, Western Australia, Perth, Department of Conservation and Environment.
- Keighery, BJ 1994, Bushland Plant Survey: A Guide to Plant Community Survey for the Community, Wildflower Society of WA (Inc), Nedlands, Western Australia.
- Shepherd, DP, Beeston, GR and Hopkins, AJM 2002, *Native Vegetation in Western Australia: Extent, Type and Status*, Natural Resource Management Technical Report No. 249:
 Department of Agriculture.
- Tingay, Alan and Associates 1998, A Strategic Plan for Perth's Greenways Final Report, prepared for Environment Australia, Ministry for Planning.
- Western Australia (WA) Herbarium 1998–, FloraBase–the Western Australian Flora, Department of Parks and Wildlife, retrieved April 2014, from http://florabase.dpaw.wa.gov.au/.



Appendix A – Project location

Figure 1 Locality





Main Roads Western Australia Mitchell Freeway BGC Quarry Access Realignment Job Number 61-2943513 Revision Date | 06 Jun 2014

SLIP ENABLER

Locality

Appendix B – Desktop searches

EPBC Act Protected Matters Search report NatureMap Flora report (10 km radius) NatureMap Fauna report (10 km radius)



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 <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

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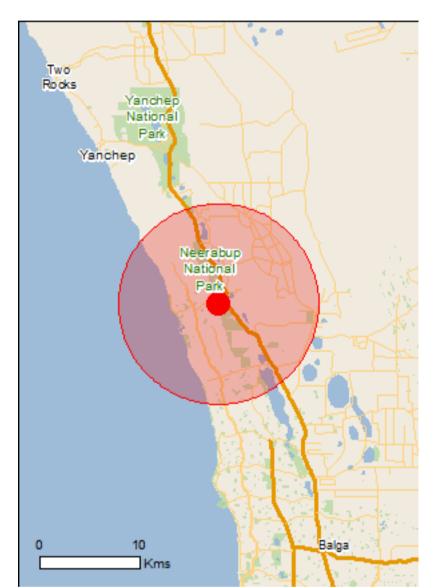
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

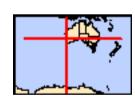
Caveat

<u>Acknowledgements</u>



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

Coordinates
Buffer: 10.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	43
Listed Migratory Species:	39

Other Matters Protected by the EPBC Act

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

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage-values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

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.

A <u>permit</u> 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:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	62
Whales and Other Cetaceans:	13
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.

Place on the RNE:	8
State and Territory Reserves:	5
Regional Forest Agreements:	None
Invasive Species:	36
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

Lietea i i i caterioa Leeregicai Cerimianine		<u> </u>
For threatened ecological communities where the crecovery plans, State vegetation maps, remote sen ecological community distributions are less well know data are used to produce indicative distribution map	sing imagery and other so own, existing vegetation n	ources. Where threatened
Name	Status	Type of Presence
Sedgelands in Holocene dune swales of the southern Swan Coastal Plain	Endangered	Community known to occur within area
Listed Threatened Species		[Resource Information
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Calyptorhynchus latirostris		
Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523] Diomedea epomophora epomophora	Endangered	Breeding likely to occur within area
Southern Royal Albatross [25996]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora sanfordi		
Northern Royal Albatross [82331]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans amsterdamensis		
Amsterdam Albatross [82330]	Endangered	Species or species habitat may occur within area
<u>Diomedea exulans exulans</u>		
Tristan Albatross [82337]	Endangered	Species or species habitat may occur within area
<u>Diomedea exulans (sensu lato)</u> Wandering Albatross [1073]	Vulnerable	Forgaina fooding or
Wandering Albatross [1073]	vuirierable	Foraging, feeding or related behaviour likely to occur within area
Halobaena caerulea Riuo Potrol (1050)	Vulnorabla	Species or appaies
Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within

[Resource Information]

Name	Status	Type of Presence
name	Status	Type of Presence
		area
<u>Leipoa ocellata</u>		
Malleefowl [934]	Vulnerable	Species or species
		habitat likely to occur
Macronostos gigantous		within area
Macronectes giganteus Southorn Ciont Datrol [4000]	Fradon grand	Charles or anasias
Southern Giant-Petrel [1060]	Endangered	Species or species
		habitat may occur within area
Macronectes halli		area
Northern Giant-Petrel [1061]	Vulnerable	Species or species
Northern Clant-retrer[1001]	Valificiable	habitat may occur within
		area
Pterodroma mollis		G. 3 G
Soft-plumaged Petrel [1036]	Vulnerable	Species or species
		habitat may occur within
		area
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species
	-	habitat may occur within
		area
Sternula nereis nereis		
Australian Fairy Tern [82950]	Vulnerable	Species or species
		habitat may occur within
		area
Thalassarche carteri		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or
		related behaviour may
The leadership courts against		occur within area
Thalassarche cauta cauta Chu Albatraga Tagragaign Chu Albatraga [900.45]	V. de a rala la	Consider on annuing
Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species
		habitat may occur within
Thalassarche cauta steadi		area
White-capped Albatross [82344]	Vulnerable	Foraging, feeding or
White-capped Albatross [02544]	Vullierable	related behaviour likely
		to occur within area
Thalassarche melanophris		to occur within area
Black-browed Albatross [66472]	Vulnerable	Species or species
		habitat may occur within
		area
Thalassarche melanophris impavida		
Campbell Albatross [82449]	Vulnerable	Species or species
		habitat may occur within
		area
Mammals		
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species
		habitat may occur within
Decrease acoffee!		area
Dasyurus geoffroii	Mada and bla	0
Chuditch, Western Quoll [330]	Vulnerable	Species or species
		habitat likely to occur
Eubalaena australis		within area
	Endongorod	Prooding known to occur
Southern Right Whale [40]	Endangered	Breeding known to occur within area
Megaptera novaeangliae		within area
Humpback Whale [38]	Vulnerable	Species or species
Trumpback Whale [56]	Vullierable	habitat known to occur
		within area
Neophoca cinerea		manif arou
Australian Sea-lion [22]	Vulnerable	Foraging, feeding or
radianar dea ner [22]	vanierabie	related behaviour likely
		to occur within area
Plants		
Andersonia gracilis		
Slender Andersonia [14470]	Endangered	Species or species
	•	habitat may occur within
		area
Anigozanthos viridis subsp. terraspectans		
Anigozantnos vinais subsp. terraspectaris		
Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species
	Vulnerable	Species or species habitat likely to occur

Nama	Status	Type of Process
Name	Status	Type of Presence
		within area
Caladenia huegelii		
King Spider-orchid, Grand Spider-orchid, Rusty	Endangered	Species or species
Spider-orchid [7309]		habitat likely to occur
Centrolepis caespitosa		within area
•	Endangered	Charles or charles
[6393]	Endangered	Species or species habitat likely to occur
		within area
Darwinia foetida		within area
Muchea Bell [83190]	Critically Endangered	Species or species
Macrica Boll [60 100]	Childany Endangered	habitat likely to occur
		within area
<u>Diuris micrantha</u>		
Dwarf Bee-orchid [55082]	Vulnerable	Species or species
		habitat likely to occur
		within area
<u>Diuris purdiei</u>		
Purdie's Donkey-orchid [12950]	Endangered	Species or species
		habitat may occur within
Dualizaca alastica		area
Drakaea elastica	Forder served	
Glossy-leafed Hammer-orchid, Praying Virgin	Endangered	Species or species
[16753]		habitat likely to occur within area
Drakaea micrantha		within area
Dwarf Hammer-orchid [56755]	Vulnerable	Species or species
Dwarr Flammer-Orchid [30733]	vuirierable	habitat may occur within
		area
Epiblema grandiflorum var. cyaneum		aroa
Baby Blue Orchid, Blue Babe-in-the-cradle	Endangered	Species or species
Orchid, Blue Babe-in-a-cradle [67182]		habitat may occur within
,		area
Eucalyptus argutifolia		
Yanchep Mallee, Wabling Hill Mallee [24263]	Vulnerable	Species or species
		habitat likely to occur
		within area
<u>Lepidosperma rostratum</u>		
Beaked Lepidosperma [14152]	Endangered	Species or species
		habitat likely to occur
Dontiloo		within area
Reptiles		
Caretta caretta	Codon soved	Caracina faciliar or
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known
		to occur within area
Chelonia mydas		to occur within area
Green Turtle [1765]	Vulnerable	Foraging, feeding or
Green runte [1766]	Valiferable	related behaviour known
		to occur within area
<u>Dermochelys coriacea</u>		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or
	<u> </u>	related behaviour known
		to occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or
		related behaviour known
		to occur within area
Sharks		
Carcharias taurus (west coast population)	\	•
Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species
		habitat may occur within
Carcharodon carcharias		area
	Vulnerable	Species or species
Great White Shark [64470]	vuirierable	Species or species habitat may occur within
		area
Rhincodon typus		aroa
Whale Shark [66680]	Vulnerable	Species or species
·· L1	- 	habitat may occur within
		area

Listed Migratory Species * Species is listed under a different scientific name	on the EPBC Act - Threa	<u>[Resource Informatio</u> tened Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds		71
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered*	Species or species habitat may occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within area
Diomedea epomophora (sensu stricto)		
Southern Royal Albatross [1072]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans (sensu lato)		- · · ·
Wandering Albatross [1073] Diomedea sanfordi	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Northern Royal Albatross [64456]	Endangered*	Foraging, feeding or
Macronectes giganteus	Endangered	related behaviour likely to occur within area
Southern Giant-Petrel [1060]	Endangered	Species or species
	Endangered	habitat may occur within area
Macronectes halli	\/loonablo	Consiss or species
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Puffinus carneipes		
Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat likely to occur within area
Sterna anaethetus Bridled Tern [814]		Foraging, feeding or related behaviour likely to occur within area
Sterna caspia		
Caspian Tern [59467] Sterna dougallii		Foraging, feeding or related behaviour known to occur within area
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Thalassarche carteri		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta (sensu stricto)	\ <i>L</i> . 1 . 1 . 4.	
Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Thalassarche impavida Comphell Albetrose [64450]	\/,.lnarabla*	Charles ar anasiss
Campbell Albatross [64459] Thalassarche melanophris	Vulnerable*	Species or species habitat may occur within area
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi		
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat may occur within area
Caperea marginata		
Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias		
Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta		
Loggerhead Turtle [1763] Chelonia mydas	Endangered	Foraging, feeding or related behaviour known to occur within area
•	Mula analala	Faranian familian an
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea	F	F ' ' '
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Eubalaena australis		D
Southern Right Whale [40]	Endangered	Breeding known to occur within area
<u>Lagenorhynchus obscurus</u>		
Dusky Dolphin [43]		Species or species habitat may occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray		Species or species habitat may occur within
[84995]		area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus	Mode and bla	Faranian faradian an
Flatback Turtle [59257] Orcinus orca	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Killer Whale, Orca [46]		Species or species
		habitat may occur within area
Rhincodon typus	\	Charles and the
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943] Merops ornatus		Species or species habitat known to occur within area
Rainbow Bee-eater [670]		Species or species habitat may occur within
Migratory Wetlands Species		area
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Ardea ibis		
Cattle Egret [59542]		Species or species habitat likely to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ruficollis		
Red-necked Stint [860]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Tristan Albatross [66471]

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.

me		
mmonwealth Land -		
stad Marina Chasica		[Decourse Information
sted Marine Species	and a second than EDDO Ast. Thosast	[Resource Information
pecies is listed under a different scientific na		
me	Threatened	Type of Presence
ds		
ous tenuirostris melanops	Vulnerable	Species or species
stralian Lesser Noddy [26000]	vuirierable	Species or species habitat may occur within area
us pacificus		
rk-tailed Swift [678]		Species or species habitat likely to occur within area
dea alba		
eat Egret, White Egret [59541]		Species or species habitat known to occur within area
<u>dea ibis</u>		
ttle Egret [59542]		Species or species habitat likely to occur within area
lidris acuminata		0
arp-tailed Sandpiper [874]		Species or species habitat known to occur within area
lidris ruficollis		
d-necked Stint [860]		Species or species habitat known to occur within area
tharacta skua		
eat Skua [59472] omedea amsterdamensis		Species or species habitat may occur within area
nsterdam Albatross [64405]	Endangered*	Species or species
		habitat may occur within area
omedea dabbenena		

Endangered*

Species or species

habitat may occur within

Name	Threatened	Type of Presence
		area
Diomedea epomophora (sensu stricto)		
Southern Royal Albatross [1072]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans (sensu lato)		to occur within area
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi	— 1	
Northern Royal Albatross [64456]	Endangered*	Foraging, feeding or related behaviour likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Halobaena caerulea		within area
Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Himantopus himantopus		
Black-winged Stilt [870]		Species or species habitat known to occur within area
Larus pacificus Pacific Cull 19111		Foreging fooding or
Pacific Gull [811]		Foraging, feeding or related behaviour may occur within area
Macronectes giganteus Southern Giant-Petrel [1060]	Endangered	Species or species
	Lindarigered	habitat may occur within area
Macronectes halli	\/lm a mala la	Consiss or anasias
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Deinham Dea catar [670]		Consiss or anasias
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Pandion haliaetus		0
Osprey [952]		Species or species habitat known to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species
	v am rot albito	habitat may occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or
		related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed		Species or species
Shearwater [1043]		habitat likely to occur within area
Red-necked Avocet [871]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Foraging, feeding or
		related behaviour likely to occur within area
Sterna caspia		
Caspian Tern [59467]		Foraging, feeding or related behaviour known to occur within area

Name	Threatened	Type of Presence
Sterna dougallii		
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Thalassarche carteri		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta (sensu stricto)		_
Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Thalassarche impavida		
Campbell Albatross [64459]	Vulnerable*	Species or species habitat may occur within area
Thalassarche melanophris		
Black-browed Albatross [66472] Thalassarche steadi	Vulnerable	Species or species habitat may occur within area
	\	Faradian facilian ar
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Fish Acentronura australe		
		Caraina ay an arian
Southern Pygmy Pipehorse [66185] Campichthys galei		Species or species habitat may occur within area
		Species or species
Gale's Pipefish [66191]		Species or species habitat may occur within area
<u>Choeroichthys suillus</u>		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus breviceps		
Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Hippocampus subelongatus		
West Australian Seahorse [66722]		Species or species habitat may occur within area
<u>Lissocampus fatiloquus</u>		
Prophet's Pipefish [66250]		Species or species habitat may occur within area
Maroubra perserrata Courte eth Directich (CCCC)		On! '
Sawtooth Pipefish [66252]		Species or species habitat may occur within area
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species habitat may occur within area
Nannocampus subosseus		
Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
Phycodurus eques		Chasias ar shasias
Leafy Seadragon [66267]		Species or species habitat may occur within area

area

Name	Threatened	Type of Presence
Phyllopteryx taeniolatus		
Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
Pugnaso curtirostris		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Stigmatopora argus Spotted Pipefish, Gulf Pipefish [66276]		Species or species
		habitat may occur within area
Stigmatopora nigra Widehody Dipofish Widehodied Dipofish Black		Species or species
Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
Syngnathoides biaculeatus		
Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
<u>Urocampus carinirostris</u>		
Hairy Pipefish [66282]		Species or species habitat may occur within area
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within
Mammals		area
Arctocephalus forsteri		
New Zealand Fur-seal [20]		Species or species habitat may occur within area
Neophoca cinerea		
Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Reptiles		
Aipysurus pooleorum		
Shark Bay Seasnake [66061]		Species or species habitat may occur within area
Caretta caretta	En desendad	
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas		
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea	En de como de	
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Disteira kingii		_
Spectacled Seasnake [1123]		Species or species habitat may occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Pelamis platurus Vallaus halliad Capanalsa [1004]		On a state and a state of
Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information
Name	Status	Type of Presence
	J . J . J . J . J . J . J . J . J . J .	. , 5 5

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Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat may occur within area
Caperea marginata		
Pygmy Right Whale [39]		Species or species habitat may occur within area
Delphinus delphis		
Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Breeding known to occur within area
Grampus griseus		0
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<u>Lagenorhynchus obscurus</u>		
Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca		Consiss or openies
Killer Whale, Orca [46]		Species or species habitat may occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within

Extra Information

Places on the RNE		[Resource Information]
Note that not all Indigenous sites may be listed.		
Name	State	Status
Natural		
Marmion Marine Park	WA	Indicative Place
Wanneroo Wetlands Eastern Chain	WA	Indicative Place
Lake Joondalup Reserves	WA	Registered
Neerabup National Park	WA	Registered
Nowergup Lake Fauna Reserve	WA	Registered
Indigenous		

area

Name	State	Status
Doogarch Site	WA	Indicative Place
Orchestra Shell Cave	WA	Registered
Historic		
Eglinton Shipwreck	WA	Registered

State and Territory Reserves	[Resource Information]
Name	State
Lake Joondalup	WA
Neerabup	WA
Neerabup	WA
Unnamed WA21176	WA
Unnamed WA43290	WA

Invasive Species [Resource Information]

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

2001.	,	,
Name	Status	Type of Presence
Birds		
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
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 Charling [200]		
Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Bos taurus		
Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		

Cat, House Cat, Domestic Cat [19]

Species or species

habitat likely to occur

Name	Status	Type of Presence
		within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur
Mus musculus House Mouse [120]		within area Species or species
Oryctolagus cuniculus		habitat likely to occur within area
Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur
Vulpes vulpes Pod Fox Fox [19]		within area Species or species
Red Fox, Fox [18]		habitat likely to occur within area
Plants <u>Asparagus aethiopicus</u>		
Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may 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 linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		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
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding		Species or species

Name	Status	Type of Presence
Pine [20780] Rubus fruticosus aggregate		habitat may occur within area
Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calode	endron & S.x reichardtii	
Willows except Weeping Willow, Pussy W Sterile Pussy Willow [68497]	illow and	Species or species habitat likely to occur within area
Salvinia molesta		
Salvinia, Giant Salvinia, Aquarium Waterm Kariba Weed [13665]	noss,	Species or species habitat likely to occur within area
Tamarix aphylla		
Athel Pine, Athel Tree, Tamarisk, Athel Ta Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]	•	Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus		
Asian House Gecko [1708] Ramphotyphlops braminus		Species or species habitat likely to occur within area
Flowerpot Blind Snake, Brahminy Blind Sr Cacing Besi [1258]	nake,	Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Joondalup Lake		WA

Coordinates

-31.67124 115.73384

Caveat

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

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

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

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

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

Only selected species covered by the 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.

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.

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Department of the Environment

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NatureMap Flora Species Report

Created By Guest user on 31/03/2014

Kingdom Plantae

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115°44' 02" E,31°40' 15" S

Buffer 10km

Group By Family

Family	Species	Records
Acrotylaceae	1	2
Aizoaceae	4	8
Amaranthaceae Apiaceae	8 9	15 44
Apocynaceae	1	1
Araceae	1	2
Araliaceae	5	23
Arecaceae	1	2
Areschougiaceae	2 19	3 63
Asparagaceae Asteraceae	34	108
Bonnemaisoniaceae	1	1
Brassicaceae	4	10
Campanulaceae	2	6
Caryophyllaceae	4	15
Casuarinaceae Celastraceae	3 4	10 5
Centrolepidaceae	3	12
Ceramiaceae	2	2
Chenopodiaceae	6	8
Codiaceae	1	1
Colchicaceae	1	2
Commelinaceae Convolvulaceae	1 1	2 1
Corallinaceae	2	2
Crassulaceae	3	11
Cucurbitaceae	1	1
Cyperaceae	25	87
Dasyaceae	1	1
Dasypogonaceae	2 1	3 1
Delesseriaceae Dilleniaceae	6	31
Droseraceae	7	37
Elaeocarpaceae	1	2
Ericaceae	13	43
Euphorbiaceae	2	3
Fabaceae Fabroniaceae	47	139
Frankeniaceae	1 1	7 1
Gelidiaceae	1	1
Geraniaceae	5	16
Goodeniaceae	8	14
Gracilariaceae	1	1
Gyrostemonaceae Haemodoraceae	1 14	1 46
Haloragaceae	5	9
Halymeniaceae	3	4
Hemerocallidaceae	8	29
Hydatellaceae	1	1
Hypneaceae	3	3
Iridaceae	6 1	32
Juncaginaceae Lamiaceae	2	1 7
Lauraceae	2	5
Loganiaceae	1	1
Loranthaceae	1	1
Malvaceae	2	4
Menyanthaceae	1	1
Myrtaceae Nitrariaceae	32 1	98 1
Olacaceae	1	1
Onagraceae	2	2
Orchidaceae	22	57
Orobanchaceae	1	2
Oxalidaceae	1	1
Phyllanthaceae Phytolaccaceae	3 1	20 2
Pittosporaceae	1	4
Plantaginaceae	1	1
Plocamiaceae	i	1
Poaceae	32	106
Polygalaceae	3	7
Polygonaceae	2	3
Portulacaceae Proteaceae	5 24	6 80
TOTOGGOGG	24	00







TOTAL	491	1416
Zamiaceae	1	7
Xanthorrhoeaceae	1	16
Violaceae	1	8
Verbenaceae	1	2
Urticaceae	1	3
Ulvaceae	1	1
Thymelaeaceae	6	10
Stylidiaceae	13	26
Solanaceae	4	5
Scrophulariaceae	4	7
Schizymeniaceae	2	2
Sapindaceae	2	2
Santalaceae	3	4
Rutaceae	3	6
Rubiaceae	2	5
Rhodomelaceae	9	13
Rhamnaceae	3	9
Restionaceae	4	6





	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Acrotylaceae	•				7.1.04
1.		Claviclonium ovatum			
Aizoaceae					
2.	2798	Carpobrotus virescens (Coastal Pigface, Kolboko)			
3.		Galenia pubescens var. pubescens	Υ		
4.		Sarcozona bicarinata	·	P3	
5.		Tetragonia decumbens (Sea Spinach)	Υ	гэ	
		Totagonia documisono (oca opinacin)	,		
Amaranthace	eae				
6.		Amaranthus powellii (Powell's Amaranth)	Y		
7.		Amaranthus viridis (Green Amaranth)	Y		
8.		Ptilotus drummondii (Narrowleaf Mulla Mulla)			
9.		Ptilotus drummondii var. drummondii (Pussytail)			
10.		Ptilotus manglesii (Pom Poms, Mulamula)			
11.	2751	Ptilotus polystachyus (Prince of Wales Feather)			
12.	15856	Ptilotus sericostachyus subsp. sericostachyus			
13.	40841	Ptilotus stirlingii subsp. stirlingii			
Apiaceae					
14.	6205	Actinotus leucocephalus (Flannel Flower)			
15.		Apium annuum			
16.		Apium graveolens (Wild Celery)	Υ		
17.		Centella asiatica	1		
18.		Daucus glochidiatus (Australian Carrot)			
19.		Eryngium pinnatifidum (Blue Devils)			
20.		Eryngium pinnatifidum subsp. pinnatifidum			
21.		Homalosciadium homalocarpum			
22.		·			
22.	0209	Xanthosia huegelii			
Apocynacea	е				
23.	11051	Gomphocarpus physocarpus	Υ		
A ======					
Araceae	20242	Landaltia nunatata (Thin Dualuusad)			
24.	26342	Landoltia punctata (Thin Duckweed)			
Araliaceae					
25.	6226	Hydrocotyle callicarpa (Small Pennywort)			
26.	6229	Hydrocotyle diantha			
27.	6232	Hydrocotyle hispidula			
28.	20649	Tetrapanax papyrifer	Υ		Υ
29.	6280	Trachymene pilosa (Native Parsnip)			
Arecaceae					
30.	17910	Washingtonia filifera	Y		
Areschougia	ceae				
31.		Callophycus harveyanus			
32.		Callophycus oppositifolius			
Asparagacea	ae				
33.		Acanthocarpus preissii			
34.	1280	Chamaescilla corymbosa (Blue Squill)			
35.		Dichopogon capillipes			
36.	16091	Lachenalia bulbifera	Y		
37.	1309	Laxmannia squarrosa			
38.	1223	Lomandra caespitosa (Tufted Mat Rush)			
39.	1228	Lomandra hermaphrodita			
40.	1231	Lomandra maritima			
41.	1232	Lomandra micrantha (Small-flower Mat-rush)			
42.	14542	Lomandra micrantha subsp. micrantha			
43.	1234	Lomandra nigricans			
44.	1239	Lomandra preissii			
45.		Lomandra sericea (Silky Mat Rush)			
46.		Lomandra suaveolens			
		Sowerbaea laxiflora (Purple Tassels)			
47.	.0.2				
47. 48.	1338	I hysanotus manglesianus (Fringed Lilv)			
48.		Thysanotus manglesianus (Fringed Lily) Thysanotus multiflorus (Many-flowered Fringe Lily)			
48. 49.	1339	Thysanotus multiflorus (Many-flowered Fringe Lily)			
48.	1339 1343				

Asteraceae







1	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
52.	7818	Actites megalocarpus (Dune Thistle)			
53.	7838	Arctotheca calendula (Cape Weed)	Υ		
54.	7840	Arctotis stoechadifolia (White Arctotis)	Υ		
55.	7851	Asteridea pulverulenta (Common Bristle Daisy)			
56.	7909	Carduus pycnocephalus (Slender Thistle)	Υ		
57.	7937	Cirsium vulgare (Spear Thistle)	Υ		
58.	20074	Conyza sumatrensis	Υ		
59.	42009	Craspedia sp. Yalgorup National Park (G.J. Keighery 14449)			
60.		Euchiton sphaericus			
61.		Galinsoga parviflora (Potato Weed)	Υ		
62.		Gnephosis uniflora	'		
			Υ		
63.		Hypochaeris glabra (Smooth Catsear)			
64.		Lactuca serriola (Prickly Lettuce)	Y		
65.		Leptorhynchos scaber (Lanky Buttons)			
66.	8105	Millotia myosotidifolia			
67.	8106	Millotia tenuifolia (Soft Millotia)			
68.	8127	Olearia axillaris (Coastal Daisybush)			
69.	32716	Olearia lehmanniana			
70.	42281	Pithocarpa cordata			
71.	8175	Podolepis gracilis (Slender Podolepis)			
72.		Podolepis lessonii			
73.		Podotheca chrysantha (Yellow Podotheca)			
73. 74.		Podotheca gnaphalioides (Golden Long-heads)			
75. 70		Quinetia urvillei			
76. 		Rhodanthe corymbosa			
77.	13312	Rhodanthe pyrethrum			
78.	8225	Siloxerus humifusus (Procumbent Siloxerus)			
79.	8230	Sonchus asper (Rough Sowthistle)	Υ		
80.	9367	Sonchus hydrophilus (Native Sowthistle)			
81.	8231	Sonchus oleraceus (Common Sowthistle)	Υ		
82.	8254	Urospermum picroides (False Hawkbit)	Υ		
83.		Ursinia anthemoides (Ursinia)	Υ		
84.		Ursinia anthemoides subsp. anthemoides	Y		
85.		Waitzia suaveolens (Fragrant Waitzia)	'		
86. Brassicaceae		Asparagopsis taxiformis			
87.	11187	Brassica barrelieri subsp. oxyrrhina (Smooth-stem Turnip)	Υ		
88.	3000	Brassica tournefortii (Mediterranean Turnip)	Υ		
89.	3016	Heliophila pusilla	Υ		
90.	3080	Stenopetalum robustum			
Campanulace					
91.		Lobelia tenuior (Slender Lobelia)			
92.	7389	Wahlenbergia preissii			
Caryophyllac	626				
		Cornetium alemeratum (Mouse For Chickwood)	Y		
93.		Cerastium glomeratum (Mouse Ear Chickweed)			
94.		Minuartia mediterranea	Y		
95.		Silene nocturna (Mediterranean Catchfly)	Y		
96.	2918	Stellaria media (Chickweed)	Y		
Casuarinacea	ae				
97.		Allocasuarina fraseriana (Sheoak, Kondil)			
98.		Allocasuarina humilis (Dwarf Sheoak)			
99.		Casuarina cunninghamiana subsp. cunninghamiana	Υ		
33.	10314	ососить оснинуваннала эскогр. оснинуваннала	ı		
Celastraceae					
100.	4733	Stackhousia monogyna			
101.	9070	Stackhousia pubescens (Downy Stackhousia)			
102.	4737	Tripterococcus brunonis (Winged Stackhousia)			
103.	16998	Tripterococcus paniculatus		P4	
Control					
Centrolepidad					
104.		Centrolepis drummondiana			
105.		Centrolepis mutica			
106.	1134	Centrolepis polygyna (Wiry Centrolepis)			
Ceramiaceae					
		Anatriahium liamanharum			
107.		Anotrichium licmophorum			
108.	∠6830	Euptilota articulata			







	Name ID	Species Name	Naturalised Con	servation Code	¹ Endemic To Que Area
Chenopodia	ceae				
109.		Atriplex cinerea (Grey Saltbush)			
110.	2483	Chenopodium album (Fat Hen)	Υ		
111.	2490	Chenopodium glaucum (Glaucous Goosefoot)	Υ		
112.	2491	Chenopodium macrospermum	Υ		
113.	11341	Rhagodia baccata subsp. baccata			
114.	11930	Rhagodia baccata subsp. dioica (Sea Berry Saltbush)			
Cadiasasa					
Codiaceae 115.	20075	Codium laminaviaidas			
115.	20075	Codium laminarioides			
Colchicacea	ie				
116.	12770	Burchardia congesta			
Commelinac	2020				
117.		Cartanama nhihudraidaa			
117.	1102	Cartonema philydroides			
Convolvulac	eae				
118.	11021	Cuscuta planiflora	Υ		
Corallinacea					
		lania varruanna			
119.		Jania verrucosa			
120.	27008	Metagoniolithon radiatum			
Crassulacea	ie				
121.	3137	Crassula colorata (Dense Stonecrop)			
122.		Crassula glomerata	Y		
123.	3146	Crassula thunbergiana	Υ		
		·			
Cucurbitace					
124.	7370	Citrullus lanatus (Pie Melon)	Υ		
Cyperaceae					
125.	740	Baumea arthrophylla			
126.		Baumea juncea (Bare Twigrush)			
127.		Baumea preissii			
128.		Carex thecata			
129.		Cyperus involucratus	Υ		
130.		Isolepis cernua (Nodding Club-rush)	•		
131.		Isolepis marginata (Coarse Club-rush)	Υ		
132.		Lepidosperma angustatum			
133.		Lepidosperma calcicola			
134.		Lepidosperma longitudinale (Pithy Sword-sedge)			
135.		Lepidosperma scabrum			
136.		Lepidosperma squamatum			
137.		Lepidosperma striatum			
137.		Mesomelaena pseudostygia			
130.		Schoenoplectus validus (Lake Club-rush)			
140.		Schoenus asperocarpus (Poison Sedge)			
141.		Schoenus clandestinus Schoenus curvifolius			
142.					
143.		Schoenus discifer			
144.		Schoenus grandiflorus (Large Flowered Bogrush)			
145.		Schoenus lanatus (Woolly Bog-rush)			
146.		Schoenus odontocarpus			
147.		Schoenus subfascicularis			
148.		Schoenus tenellus			
149.	1036	Tetraria octandra			
Dasyaceae					
150.	26735	Dasya cliftonii			
		•			
Dasypogona	aceae				
151.	1213	Calectasia cyanea (Blue Tinsel Lily)		Т	
152.	19309	Calectasia narragara			
Delesseriace	eae				
153.		Chauviniella coriifolia			
100.	20022	GridavirilGila CUTIIIOIIa			
Dilleniaceae	!				
154.	5112	Hibbertia aurea			
155.	5134	Hibbertia huegelii			
156.		Hibbertia hypericoides (Yellow Buttercups)			
157.		Hibbertia racemosa (Stalked Guinea Flower)			
158.		Hibbertia sericosepala			
159.	11461	Hibbertia spicata subsp. leptotheca		P3	

NatureMap is a collaborative project of the Department of Environment and Conservation, Western Australia, and the Western Australian Museum.







Conservation Code ¹Endemic To Query Name ID Species Name Naturalised Droseraceae 3095 Drosera erythrorhiza (Red Ink Sundew) 160 3106 Drosera macrantha (Bridal Rainbow) 161. 162. 3109 Drosera menziesii (Pink Rainbow) 163 13216 Drosera menziesii subsp. penicillaris 164. 3118 Drosera pallida (Pale Rainbow) 165. 31233 Drosera patens 30712 Drosera x sidjamesii 166. P1 Elaeocarpaceae 4524 Platytheca galioides 167. **Ericaceae** 6295 Acrotriche cordata (Coast Ground Berry) 168 169. 6311 Andersonia heterophylla 170. 6314 Andersonia lehmanniana 171. 6323 Astroloma ciliatum (Candle Cranberry) 6331 Astroloma microcalyx (Native Cranberry) 172 6334 Astroloma pallidum (Kick Bush) 173. 174. 6348 Conostephium pendulum (Pearl Flower) 175. 6427 Leucopogon parviflorus (Coast Beard-heath) 176 6434 Leucopogon polymorphus 177. 6436 Leucopogon propinguus 178. 19460 Leucopogon sp. Yanchep (M. Hislop 1986) РЗ 179. 6456 Lysinema ciliatum (Curry Flower) 34736 Lysinema pentapetalum 180 Euphorbiaceae 181. 4648 Euphorbia terracina (Geraldton Carnation Weed) 182. 4713 Stachystemon axillaris (Leafy Stachystemon) **Fabaceae** 183. 15470 Acacia barbinervis subsp. borealis 184. 3237 Acacia benthamii P2 185. 3271 Acacia costata 186 3282 Acacia cyclops (Coastal Wattle) 187. 3409 Acacia lasiocarpa (Panjang) 188. 11611 Acacia lasiocarpa var. lasiocarpa 189. 17861 Acacia longifolia 3502 Acacia pulchella (Prickly Moses) 190. 191. 15481 Acacia pulchella var. glaberrima 15482 Acacia pulchella var. goadbyi 192. 3525 Acacia rostellifera (Summer-scented Wattle) 193. 194. 3527 Acacia saligna (Orange Wattle, Kudiong) 195. 30032 Acacia saligna subsp. saligna 196 3584 Acacia truncata 197. 3602 Acacia willdenowiana (Grass Wattle) 198. 3710 Bossiaea eriocarpa (Common Brown Pea) 199. 3793 Daviesia angulata 200. 3805 Daviesia decurrens (Prickly Bitter-pea) 201. 3807 Daviesia divaricata (Marno) 202. 18560 Daviesia divaricata subsp. divaricata 203 3824 Daviesia nudiflora 204. 3845 Daviesia triflora 205. 20483 Gastrolobium linearifolium 20482 Gastrolobium nervosum 206. 207. 3957 Gompholobium tomentosum (Hairy Yellow Pea) 208 3961 Hardenbergia comptoniana (Native Wisteria) 209. 3966 Hovea pungens (Devil's Pins, Puyenak) 210 12859 Hovea trisperma var. trisperma 211. 3992 Isotropis cuneifolia (Granny Bonnets) 212 14783 Jacksonia calcicola 213. 4027 Jacksonia sericea (Waldjumi) 214 4029 Jacksonia sternbergiana (Stinkwood, Kapur) 215. 4044 Kennedia prostrata (Scarlet Runner) 216 4066 Lupinus cosentinii 4075 Medicago littoralis (Strand Medic) Υ 217 218. 4079 Medicago polymorpha (Burr Medic) 219 4085 Melilotus indicus 220. 4207 Sphaerolobium medium 221 4256 Templetonia retusa (Cockies Tongues) 4292 Trifolium campestre (Hop Clover)

Department of Environment and Conservation





	. tunio iD	Species Name	Naturalised	Conservation Code	Area
223.	17763	Trifolium campestre var. campestre (Hop Clover)	Y Y		
224.		Trifolium dubium (Suckling Clover)	Y		
225.		Trifolium glomeratum (Cluster Clover)	Y		
226.		Trifolium scabrum (Rough Clover)	Y		
227.		Vicia sativa (Common Vetch)	Y		
228.		Vicia sativa subsp. nigra	Y		
229.		Viminaria juncea (Swishbush, Koweda)			
abroniacea					
230.		Fabronia hampeana		P2	
rankeniace	ae				
231.	5209	Frankenia pauciflora (Seaheath)			
elidiaceae					
232.	26848	Gelidium crinale			
eraniaceae	!				
233.	4332	Erodium botrys (Long Storksbill)	Υ		
234.	4339	Geranium molle (Dove's Foot Cranesbill)	Υ		
235.	4341	Geranium solanderi (Native Geranium)			
236.	4343	Pelargonium capitatum (Rose Pelargonium)	Υ		
237.	4346	Pelargonium littorale			
oodeniace					
238.		Anthotium junciforme			
239.		Goodenia pulchella subsp. Coastal Plain A (M. Hislop 634)			
240.		Lechenaultia floribunda (Free-flowering Leschenaultia)			
241.		Lechenaultia linarioides (Yellow Leschenaultia)			
242.		Scaevola canescens (Grey Scaevola)			
243. 244.		Scaevola crassifolia (Thick-leaved Fan-flower)			
244.		Scaevola repens var. repens Scaevola thesioides subsp. thesioides			
243.	13132	ocaevola iriesiolaes subsp. iriesiolaes			
yrostemon 247.		Gyrostemon ramulosus (Corkybark)			
241.	2704	Gyrosternon ramulosus (Corkybark)			
aemodorac	eae				
248.	1400	Anigozanthos humilis (Catspaw)			
	1409	Angozaninos naminis (Catspaw)			
249.	11434	Anigozanthos humilis subsp. humilis			
250.	11434 1418	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis)			
250. 251.	11434 1418 11826	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata			
250. 251. 252.	11434 1418 11826 11513	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum			
250. 251. 252. 253.	11434 1418 11826 11513 1425	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata		P3	
250. 251. 252. 253. 254.	11434 1418 11826 11513 1425 1427	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead)		P3	
250. 251. 252. 253. 254. 255.	11434 1418 11826 11513 1425 1427 11438	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans		P3	
250. 251. 252. 253. 254. 255. 256.	11434 1418 11826 11513 1425 1427 11438 1443	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis)		P3	
250. 251. 252. 253. 254. 255. 256. 257.	11434 1418 11826 11513 1425 1427 11438 1443	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead)		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower)		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon atreum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon atreum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199 26850	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268. 269.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 6 33620 6143 6161 6192 6199 26850 37640	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 6 33620 6143 6161 6192 6199 26850 37640 dlaceae	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268. 269. emerocallie	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199 26850 37640 daceae 1276	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis seteretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea Halymenia floresii		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268. 269. emerocallie 270. 271. 272.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199 26850 37640 daceae 1276 1285	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea Halymenia floresii Caesia micrantha (Pale Grass Lily)		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268. 269. emerocallie 270. 271. 272. 273.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199 26850 37640 daceae 1276 1285 11283 1259	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea Halymenia floresii Caesia micrantha (Pale Grass Lily) Corynotheca micrantha var. micrantha Dianella revoluta (Blueberry Lily)		P3	
250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. aloragacea 262. 263. 264. 265. 266. alymeniace 267. 268. 269. emerocallie 270. 271. 272.	11434 1418 11826 11513 1425 1427 11438 1443 1454 11597 11870 1468 1478 e 33620 6143 6161 6192 6199 26850 37640 daceae 1276 1285 11283 1259 11636	Anigozanthos humilis subsp. humilis Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis aculeata subsp. cygnorum Conostylis bracteata Conostylis candicans (Grey Cottonhead) Conostylis candicans subsp. candicans Conostylis pauciflora (Dawesville Conostylis) Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Conostylis setigera subsp. setigera Conostylis teretifolia subsp. teretifolia Haemodorum laxum Phlebocarya ciliata Glischrocaryon angustifolium Glischrocaryon aureum (Common Popflower) Gonocarpus pithyoides Myriophyllum drummondii Myriophyllum tillaeoides Cryptonemia undulata Gelinaria ulvoidea Halymenia floresii Caesia micrantha (Pale Grass Lily) Corynotheca micrantha var. micrantha		P3	

NatureMap is a collaborative project of the Department of Environment and Conservation, Western Australia, and the Western Australian Museum.







	iaille ID	Species Name Naturalis	sed Conservation Co	de ¹ Endemic To Query Area
276.	1260	Stypandra glauca (Blind Grass)		
277.	1361	Tricoryne elatior (Yellow Autumn Lily)		
Hydatellaceae	•			
278.	1141	Trithuria submersa		
Hypneaceae				
279.	35922	Hypnea cornuta		
280.	35898	Hypnea musciformis		
281.	26973	Hypnea valentiae		
Iridaceae				
282.	1520	Gladiolus caryophyllaceus (Wild Gladiolus)		
283.		Moraea flaccida (One-leaf Cape Tulip)		
284.	1537	Orthrosanthus laxus (Morning Iris)		
285.	11749	Orthrosanthus laxus var. laxus (Morning Iris)		
286.	1556	Romulea rosea (Guildford Grass) Y		
287.	1558	Sparaxis bulbifera Y		
Juncaginacea	e			
288.		Triglochin trichophora		
l amiasasa				
Lamiaceae 289.	16024	Hemiandra glabra subsp. glabra		
290.		Hemiandra gungens (Snakebush)		
_	5555			
Lauraceae	00	Occasida adala III. (Taradad Daddard		
291.		Cassytha glabella (Tangled Dodder Laurel)		
292.	295/	Cassytha racemosa (Dodder Laurel)		
Loganiaceae				
293.	16177	Phyllangium paradoxum		
Loranthaceae				
294.	2401	Nuytsia floribunda (Christmas Tree, Mudja)		
Malvaceae				
295.	5011	Guichenotia ledifolia		
296.		Thomasia triphylla		
		, ,		
Menyanthace	ae			
	ae	Ornduffia albiflora		
Menyanthace	ae			
Menyanthacea	36 177			
Menyanthacea 297. Myrtaceae 298. 299.	36177 20283 34161	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300.	36177 20283 34161 5382	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301.	36177 20283 34161 5382 5415	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302.	20283 34161 5382 5415 5426	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303.	36177 20283 34161 5382 5415 5426 5429	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304.	20283 34161 5382 5415 5426 5429 5458	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305.	36177 20283 34161 5382 5415 5426 5429 5458 5460	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304.	20283 34161 5382 5415 5426 5429 5458 5460 17104	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower)	P1	
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305. 306.	20283 34161 5382 5415 5426 5429 5458 5460 17104 13091	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix) Corymbia calophylla (Marri)		
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305. 306. 307.	20283 34161 5382 5415 5426 5429 5458 5460 17104 13091 13536	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix) Corymbia calophylla (Marri) Eucalyptus argutifolia (Wabling Hill Mallee)		
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308.	20283 34161 5382 5415 5426 5429 5458 5460 17104 13091 13536 5649	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix) Corymbia calophylla (Marri) Eucalyptus argutifolia (Wabling Hill Mallee) Eucalyptus decipiens subsp. decipiens		
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309.	20283 34161 5382 5415 5426 5429 5458 5460 17104 13091 13536 5649 5659	Ornduffia albiflora Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix) Corymbia calophylla (Marri) Eucalyptus argutifolia (Wabling Hill Mallee) Eucalyptus decipiens subsp. decipiens Eucalyptus foecunda (Narrow-leaved Red Mallee)		
Menyanthacea 297. Myrtaceae 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310.	20283 34161 5382 5415 5426 5429 5458 5460 17104 13091 13536 5649 5659 5708	Astartea scoparia Baeckea sp. Limestone (N. Gibson & M.N. Lyons 1425) Beaufortia elegans Calothamnus lateralis Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard) Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix flavescens (Summer Starflower) Calytrix fraseri (Pink Summer Calytrix) Corymbia calophylla (Marri) Eucalyptus argutifolia (Wabling Hill Mallee) Eucalyptus decipiens subsp. decipiens Eucalyptus foecunda (Narrow-leaved Red Mallee) Eucalyptus gomphocephala (Tuart, Duart) Eucalyptus marginata (Jarrah, Djara) Eucalyptus marginata subsp. marginata (Jarrah)		
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Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Nitrariaceae 4366 Nitraria billardierei (Nitre Bush) 330. Olacaceae 331. 2365 Olax benthamiana Onagraceae 332. 6132 Epilobium ciliatum Υ 333. 6133 Epilobium hirtigerum (Hairy Willow Herb) Orchidaceae 334. 15330 Caladenia arenicola 335. 11038 Caladenia bicalliata 1592 Caladenia flava (Cowslip Orchid) 336 15348 Caladenia flava subsp. flava 337. 338 15352 Caladenia georgei 339. 1595 Caladenia hirta (Sugar Candy Orchid) 340 1599 Caladenia latifolia (Pink Fairy Orchid) 341. 15361 Caladenia longicauda subsp. calcigena 342. 10916 Cyrtostylis huegelii 343. 19649 Disa bracteata 11049 Diuris corymbosa 1635 Diuris longifolia (Common Donkey Orchid) 345. 1643 Elythranthera brunonis (Purple Enamel Orchid) 346. 347. 1645 Epiblema grandiflorum (Babe-in-a-cradle) 348. 1646 Eriochilus dilatatus (White Bunny Orchid) 349. 1653 Leporella fimbriata (Hare Orchid) 15419 Microtis media subsp. media 350 351. 1672 Prasophyllum fimbria (Fringed Leek Orchid) 17267 Pterostvlis brevisepala 352. 353. 12217 Pterostylis sanguinea 18658 Pterostylis sp. short sepals (W. Jackson BJ259) 354 1698 Pterostylis vittata (Banded Greenhood) 355. Orobanchaceae 356. 7122 Orobanche minor (Lesser Broomrape) Oxalidaceae 357. 4356 Oxalis pes-caprae (Soursob) **Phyllanthaceae** 358 4675 Phyllanthus calycinus (False Boronia) 359. 17794 Phyllanthus tenellus 360. 4691 Poranthera microphylla (Small Poranthera) **Phytolaccaceae** 361. 2793 Phytolacca octandra (Red Ink Plant) Pittosporaceae 362. 25819 Marianthus paralius Т Plantaginaceae 363. 16346 Bacopa monnieri **Plocamiaceae** 364 27155 Plocamium cartilagineum Poaceae 365. 184 Aira caryophyllea (Silvery Hairgrass) 366. 17234 Austrostipa compressa 367. 17240 Austrostipa flavescens 368. 35317 Austrostipa mundula P2 369. 231 Avellinia michelii 370. 233 Avena barbata (Bearded Oat) Υ 371. 244 Briza maxima (Blowfly Grass) 245 Briza minor (Shivery Grass) 372. Υ 373. 249 Bromus diandrus (Great Brome) Υ 374 277 Cortaderia selloana (Pampas Grass) 375. 283 Cynodon dactylon (Couch) 376. 306 Dichelachne crinita (Longhair Plumegrass) 320 Digitaria sanguinalis (Crab Grass) 377. 378 347 Ehrharta calycina (Perennial Veldt Grass) 379 349 Ehrharta longiflora (Annual Veldt Grass) Υ 380 376 Eragrostis curvula (African Lovegrass) 381 439 Hemarthria uncinata (Matgrass)







ı	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Que Area
382.		Holcus lanatus (Yorkshire Fog)	Y		
383.		Holcus setiger (Annual Fog)	Y		
384. 385.		Hordeum leporinum (Barley Grass) Lagurus ovatus (Hare's Tail Grass)	Y		
386.		Lolium Ioliaceum (Stiff Ryegrass)	Ϋ́		
387.		Lolium multiflorum (Italian Ryegrass)	Y		
388.		Microlaena stipoides (Weeping Grass)	•		
389.		Poa annua (Winter Grass)	Υ		
390.		Poa drummondiana (Knotted Poa)			
391.		Poa porphyroclados			
392.		Polypogon monspeliensis (Annual Beardgrass)	Y		
393.		Sporobolus virginicus (Marine Couch)			
394.		Thinopyrum distichum	Υ		
395.	11137	Vulpia fasciculata	Υ		
396.		Vulpia myuros (Rat's Tail Fescue)	Υ		
		7			
olygalaceae					
397.		Comesperma calymega (Blue-spike Milkwort)			
398.		Comesperma confertum			
399.	4554	Comesperma flavum			
olygonaceae	9				
400.		Persicaria decipiens			
401.		Persicaria lapathifolia	Υ		
ortulososs					
ortulacacea		Octor thin in how in a data (Oh and a tall and Boundary)			
402.		Calandrinia brevipedata (Short-stalked Purslane)			
403.		Calandrinia corrigioloides (Strap Purslane)			
404.		Calandrinia granulifera (Pygmy Purslane)			
405.		Calandrinia liniflora (Parakeelya)			
406.	40827	Calandrinia tholiformis			
roteaceae					
407.	1800	Banksia attenuata (Slender Banksia, Piara)			
408.	11386	Banksia leptophylla var. melletica			
409.	1834	Banksia menziesii (Firewood Banksia)			
410.	32077	Banksia sessilis var. cygnorum			
411.	15511	Conospermum boreale			
412.	1876	Conospermum incurvum (Plume Smokebush)			
413.	15611	Conospermum stoechadis subsp. stoechadis (Common Smokebush)			
414.	1885	Conospermum triplinervium (Tree Smokebush)			
415.	15839	Grevillea preissii subsp. preissii			
416.	33737	Grevillea sp. Ocean Reef (D. Pike Joon 4)		P1	Υ
417.	2119	Grevillea vestita			
418.	12824	Grevillea vestita subsp. vestita			
419.	2146	Hakea costata (Ribbed Hakea)			
420.	2175	Hakea lissocarpha (Honey Bush)			
421.	2203	Hakea ruscifolia (Candle Hakea)			
422.	2214	Hakea trifurcata (Two-leaf Hakea)			
423.	2258	Persoonia comata			
424.	2273	Persoonia saccata (Snottygobble)			
425.	20368	Petrophile axillaris			
426.	2299	Petrophile linearis (Pixie Mops)			
427.		Petrophile macrostachya			
428.	2309	Petrophile serruriae			
429.	2316	Stirlingia latifolia (Blueboy)			
430.	15532	Synaphea spinulosa subsp. spinulosa			
estionaceae					
431.		Desmocladus asper			
432.		Hypolaena exsulca			
433.		Lepyrodia muirii			
434.		Meeboldina scariosa			
-10-T.	. 1 0 3 4				
hamnaceae					
435.		Cryptandra mutila			
436.	4810	Cryptandra scoparia			
437.	4828	Spyridium globulosum (Basket Bush)			
hodomelace	ae				
438.		Coeloclonium tasmanicum			
430.		Dictyomenia sonderi			
440.		Dictyomenia tridens			
		Kuetzingia canaliculata			
441.	Zhyun				

NatureMap is a collaborative project of the Department of Environment and Conservation, Western Australia, and the Western Australian Museum.







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
442.	26998	Laurencia brongniartii			
443.	27001	Laurencia filiformis			
444.	27013	Lenormandia spectabilis			
445.	27107	Osmundaria prolifera			
446.	27162	Pollexfenia pedicellata			
Rubiaceae					
447.	7323	Galium murale (Small Goosegrass)	Υ		
448.	18255	Opercularia vaginata (Dog Weed)			
2					
Rutaceae					
449.		Boronia purdieana subsp. purdieana			
450.		Diplolaena angustifolia (Yanchep Rose)			
451.	18529	Philotheca spicata (Pepper and Salt)			
Santalaceae	,				
452.		Evenomes apartous (Proom Pollart, Diule)			
		Exocarpos sparteus (Broom Ballart, Djuk)			
453.		Leptomeria empetriformis			
454.	2352	Leptomeria preissiana			
Sapindacea	Δ				
455.		Diplopeltis huegelii			
456.	18541	Diplopeltis huegelii subsp. huegelii			
Schizymenia	aceae				
457.		Platoma cyclocolpum			
458.		Schizymenia dubyi			
400.	21200	Comzymonia dabyi			
crophulari	aceae				
459.	7054	Dischisma arenarium	Υ		
460.	7215	Eremophila glabra (Tar Bush)			
461.		Eremophila glabra subsp. albicans			
462.		Myoporum insulare (Blueberry Tree, boobialla)			
402.	7231	myoporum msulare (Blueberry Tree, booblana)			
Solanaceae					
463.	6949	Anthocercis littorea (Yellow Tailflower)			
464.		Solanum americanum (Glossy Nightshade)	Υ		
465.		Solanum linnaeanum (Apple of Sodom)	Y		
466.			Y		
400.	1022	Solanum nigrum (Black Berry Nightshade)	ī		
Stylidiaceae)				
467.		Levenhookia stipitata (Common Stylewort)			
468.		Stylidium androsaceum			
469.		Stylidium araeophyllum			
470.		Stylidium brunonianum (Pink Fountain Triggerplant)			
471.		Stylidium calcaratum (Book Triggerplant)			
472.		Stylidium divaricatum (Daddy-long-legs)			
473.	7745	Stylidium junceum (Reed Triggerplant)			
474.	7756	Stylidium longitubum (Jumping Jacks)		P3	
475.	13127	Stylidium maritimum		P3	
476.	25829	Stylidium neurophyllum			
477.		Stylidium piliferum (Common Butterfly Triggerplant)			
478.		Stylidium rigidulum			
479.		Stylidium utricularioides (Pink Fan Triggerplant)			
Ψ1 3 .	1000	organiam unioundinoides (i inik i an imggerpiam)			
Thymelaeac	eae				
480.		Pimelea argentea (Silvery Leaved Pimelea)			
481.		Pimelea calcicola		P3	
482.		Pimelea ferruginea		13	
		-			
483.		Pimelea rosea subsp. rosea			
484.		Pimelea sulphurea (Yellow Banjine)			
485.	5272	Pimelea villifera			
JIvaceae 486.	35263	Ulva flexuosa			
400.					
Jrticaceae		Parietaria debilis (Pellitory)			
	1762	, , ,			
Jrticaceae	е	Phyla nodiflora var. nodiflora	Y		
Jrticaceae 487. /erbenacea 488.	е		Υ		
Jrticaceae ^{487.} /erbenacea	e 6734		Y		

490. 1256 Xanthorrhoea preissii (Grass tree, Palga)







Conservation Code ¹Endemic To Query Area Naturalised Name ID Species Name

Zamiaceae

491. 85 Macrozamia riedlei (Zamia, Djiridji)

Conservation Codes

7 - Rare or likely to become extinct
X - Presumed extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 2
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 wholely 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.







NatureMap Fauna Species Report

Created By Guest user on 31/03/2014

Kingdom Animalia

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115°44' 02" E,31°40' 15" S

Buffer 10km

Group By Family

Family	Species	Record
Acanthizidae	7	55
Accipitridae	9	32
Actinopodidae	1	
Aegothelidae	1	
Agamidae	3	3
Anatidae	12	159
Apodidae	1	
Araneidae	5	1
Ardeidae	4	18
Artamidae	2	1
Atemnidae	1	
Balaenidae	1	
Balaenopteridae	1	
Barychelidae	1	
Boidae	2	
Bothriuridae	2	
Bovidae	2	
Camelidae	1	
Campephagidae	2	7
Canidae	2	
Caprimulgidae	1	
Carangidae	1	
Castniidae	i	39
Casuariidae	1	
Casuaridae Chaetodontidae	1	
		4
Charadriidae	3	
Cheilodactylidae	2	
Cheloniidae	2	
Cheluidae	1	
Colletidae	1	
Columbidae	5	64
Corvidae	3	35
Cracticidae	6	60
Cuculidae	3	2
Dasyuridae	1	
Dermochelyidae	1	
Dicaeidae	1	
Dicruridae	4	53
Diomedeidae	2	
Diplodactylidae	4	1
Elapidae	12	7
Engraulidae	1	
Falconidae	5	7
Felidae	1	
Gekkonidae	1	
Halcyonidae	2	25
Hirundinidae	2	19
Hylidae	2	1
Hyriidae	1	'
Idiopidae	2	
Ixodidae	1	
Julidae	1	
Labridae	2	
Lamponidae	1	
Laridae	2	
Leporidae	1	
Limnodynastidae	2	5
Lycosidae	2	
Macropodidae	3	1
Maluridae	6	21
Meliphagidae	12	70
Meropidae	1	2
Micropholcommatidae	3	_
Mimetidae	1	
Molossidae	1	
Monacanthidae	1	
Mullidae	2	
	1	
Muraenidae		
Muridae	4	4
Myobatrachidae	3	1
Nemesiidae	1	
Neosittidae	1	1
Odacidae	1	
	1 1	







syrvidae Tachyglossidae Tarsipedidae Tettigoniidae Threskionithidae	3 1 1 1 5	2 11 2 497
Sillaginidae	1	1
Sparassidae	1	1
Spheniscidae	1	1
Strigidae	1	8
Sylviidae	3	94
Salticidae	1	1
Scincidae	18	329
Scolopacidae	5	39
Scolopendridae	5	63
Pygopodidae	8	46
Rallidae	6	518
Recurvirostridae	3	291
Pomacentridae	1	1
Potoroidae	2	2
Procellariidae	5	10
Psittacidae	17	687
Phasianidae	1	5
Pholcidae	1	1
Physeteridae	1	1
Podargidae	1	6
Podicipedidae	3	303
Pardatotidae Pardalotidae Pataecidae Pelecanidae Peramelidae Peripatopsidae Petroicidae Phalacrocoracidae Phalangeridae	1 1 1 2 1 5 4	158 1 139 47 1 10 150
Pachycephalidae	6	125
Paradoxosomatidae	1	7
Pararchaeidae	1	1





	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Acanthizidae					
1.	24260	Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)			
2.	24261	Acanthiza chrysorrhoa (Yellow-rumped Thornbill)			
3.	24262	Acanthiza inornata (Western Thornbill)			
4.	25530	Gerygone fusca (Western Gerygone)			
5.		Sericornis frontalis (White-browed Scrubwren)			
6.		Sericornis frontalis subsp. maculatus (White-browed Scrubwren)			
7.		Smicrornis brevirostris (Weebill)			
Accipitridae					
8.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)			
9.	25536	Accipiter fasciatus (Brown Goshawk)			
10.	24282	Accipiter fasciatus subsp. fasciatus (Brown Goshawk)			
11.	24285	Aquila audax (Wedge-tailed Eagle)			
12.	25538	Aquila morphnoides (Little Eagle)			
13.	24286	Aquila morphnoides subsp. morphnoides (Little Eagle)			
14.		Circus approximans (Swamp Harrier)			
15.		Haliaeetus leucogaster (White-bellied Sea-Eagle)		IA	
16.		Haliastur sphenurus (Whistling Kite)		<i>II</i> (
10.	24233	Trailastar Sprioriarus (Winstilling Pate)			
Actinopodida	ae				
17.	-11748	Missulena occatoria			
Aegothelidae		Aegotheles cristatus (Australian Owlet-nightjar)			
Agamidae					
19.	30899	Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)			
20.		Pogona minor (Dwarf Bearded Dragon)			
21.		Pogona minor subsp. minor (Dwarf Bearded Dragon)			
21.	24307	Togona minor subsp. minor (Dwan Dearded Dragon)			
Anatidae					
22.	24310	Anas castanea (Chestnut Teal)			
23.	24312	Anas gracilis (Grey Teal)			
24.	24313	Anas platyrhynchos (Mallard)			
25.		Anas rhynchotis (Australasian Shoveler)			
26.		Anas superciliosa (Pacific Black Duck)			
27.		Aythya australis (Hardhead)			
28.		Biziura lobata (Musk Duck)			
29.		Chenonetta jubata (Australian Wood Duck, Wood Duck)			
30.		Cygnus atratus (Black Swan)			
31.		Malacorhynchus membranaceus (Pink-eared Duck)			
32.		Oxyura australis (Blue-billed Duck)			
33.	24331	Tadorna tadornoides (Australian Shelduck, Mountain Duck)			
Apodidae 34.	25554	Apus pacificus (Fork-tailed Swift)		IA	
J . .	20004	, pao paomono (i oin tanon omit)		IA	
Araneidae					
35.	-12293	Araneus cyphoxis			
36.	-11820	Araneus senicaudatus			
37.	-12529	Austracantha minax			
38.	-11734	Eriophora biapicata			
39.		Paraplectanoides crassipes			
Ardeidae					
40.		Ardea modesta (Eastern Great Egret)		IA	
41.		Ardea novaehollandiae (White-faced Heron)			
42.	24341	Ardea pacifica (White-necked Heron)			
43.	25564	Nycticorax caledonicus (Rufous Night Heron)			
Artamidae					
	05500	Automore singular (Disply forced M/ d			
44.		Artamus cinereus (Black-faced Woodswallow)			
45.	24353	Artamus cyanopterus (Dusky Woodswallow)			
Atemnidae 46.	-11719	Oratemnus curtus			
Ralassidas					
Balaenidae	6.45	Fulsales and authority (Occultation St. 1994)		_	
47.	24043	Eubalaena australis (Southern Right Whale)		T	
Balaenopteri		Megaptera novaeangliae (Humpback Whale)		Т	
₹0.	2 7 001	gaptora novacangliae (nampoach viriale)		ı	

Department of Environment and Conservation museum





1	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
Barychelidae					
49.	-12201	Idiommata blackwalli			
Boidae					
50.	25241	Antaresia stimsoni subsp. stimsoni (Stimson's Python)			
51.	25240	Morelia spilota subsp. imbricata (Carpet Python)		S	
Bothriuridae	4005	Caranharina manulanua			
52.		Cercophonius granulosus			
53.	-11/41	Cercophonius sulcatus			
Bovidae					
54.		Bos taurus (European Cattle)	Y		
55.	34016	Ovis aries (Sheep)			
Camelidae					
56.	24254	Camelus dromedarius (Dromedary, Camel)	Υ		
Campephagid	مدا				
57.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
58.		Lalage tricolor (White-winged Triller)			
		g (g-z)			
Canidae					
59.		Canis lupus (Dog, Dingo)	Y		
60.	24040	Vulpes vulpes (Red Fox)	Υ		
Caprimulgida	е				
61.	24368	Eurostopodus argus (Spotted Nightjar)			
Caranaidaa					
Carangidae 62.	15070	Seriola lalandi			
02.	-13072	Seriola lalariul			
Castniidae					
63.	33992	Synemon gratiosa (Graceful Sunmoth)		P4	
Casuariidae					
64.	24470	Dromaius novaehollandiae (Emu)			
Chaetodontid					
65.	-17499	Chelmonops curiosus			
Charadriidae					
66.	25575	Charadrius leschenaultii (Greater Sand Plover)		IA	
67.	24377	Charadrius ruficapillus (Red-capped Plover)			
68.	24379	Erythrogonys cinctus (Red-kneed Dotterel)			
Cheilodactylic	dae				
69.		Cheilodactylus gibbosus			
70.		Cheilodactylus rubrolabiatus			
.		•			
Cheloniidae		- · · · · · · · · · · · · · · · · · · ·		_	
71.		Caretta caretta (Loggerhead Turtle)		T	
72.	25336	Chelonia mydas (Green Turtle)		Т	
Cheluidae					
73.	43380	Chelodina colliei (Oblong Turtle)			
Colletidae					
74.	33977	Hylaeus globuliferus (bee)		P3	
	00011	Try dead grossmorde (500)		10	
Columbidae					
75.		Columba livia (Domestic Pigeon)	Υ		
76.		Ocyphaps lophotes (Crested Pigeon)			
77.		Phaps chalcoptera (Common Bronzewing)			
78.		Streptopelia chinensis (Spotted Turtle-Dove)	Y		
79.	25590	Streptopelia senegalensis (Laughing Turtle-Dove)	Υ		
Corvidae					
80.	24416	Corvus bennetti (Little Crow)			
81.		Corvus coronoides (Australian Raven)			
82.	24417	Corvus coronoides subsp. perplexus (Australian Raven)			
Cracticidae					
	24420	Cracticus nigrogularis (Pied Butcherbird)			
Cracticidae 83. 84.		Cracticus nigrogularis (Pied Butcherbird) Cracticus tibicen (Australian Magpie)			
83.	25595				
83. 84.	25595 24422	Cracticus tibicen (Australian Magpie)			
83. 84. 85.	25595 24422 25596	Cracticus tibicen (Australian Magpie) Cracticus tibicen subsp. dorsalis (White-backed Magpie)			







S	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Qu Area
Cuculidae	05500	Occasional to the health and a feet of the decorate			
89.		Cacomantis flabelliformis (Fan-tailed Cuckoo)			
90.		Cacomantis pallidus (Pallid Cuckoo)			
91.	24431	Chrysococcyx basalis (Horsfield's Bronze Cuckoo)			
Dasyuridae 92.	24092	Dasyurus geoffroii (Chuditch, Western Quoll)		Т	
ermochely	idae				
93.		Dermochelys coriacea (Leatherback Turtle)		Т	
icaeidae	2502	Diagous his undiagous (Middletochisel)			
94.	25607	Dicaeum hirundinaceum (Mistletoebird)			
icruridae					
95.	24443	Grallina cyanoleuca (Magpie-lark)			
96.	25610	Myiagra inquieta (Restless Flycatcher)			
97.	25613	Rhipidura fuliginosa (Grey Fantail)			
98.	25614	Rhipidura leucophrys (Willie Wagtail)			
omedeida	_				
99.		Diomedea chlororhynchos (Yellow-nosed Albatross)		Т	
100.		Diomedea chrysostoma (Grey-headed Albatross)		T	
100.	24400	Diometica chrysostoma (Grey-headed Albatross)		'	
iplodactyli	dae				
101.	24918	Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)			
102.	24939	Diplodactylus polyophthalmus			
103.		Strophurus spinigerus subsp. inornatus			
104.	24942	Strophurus spinigerus subsp. spinigerus			
Elapidae					
105.	42380	Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake)			
106.		Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
107.		Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)			
108.		Echiopsis curta (Bardick)			
109.		Hydrophis platurus (Yellow-bellied Seasnake)			
110.		Neelaps bimaculatus (Black-naped Snake)			
111.		Neelaps calonotos (Black-striped Snake)		P3	
112.		Notechis scutatus (Tiger Snake)		10	
113.		Parasuta gouldii			
114.		Pseudonaja affinis (Dugite)			
115.		Pseudonaja affinis subsp. affinis (Dugite)			
116.		Simoselaps bertholdi (Jan's Banded Snake)			
	20200	Simossapo solutola (cario Bariada Silato)			
Engraulidae					
117.	-15048	Engraulis australis			
alconidae					
118.	25621	Falco berigora (Brown Falcon)			
119.		Falco cenchroides (Australian Kestrel)			
120.		Falco longipennis (Australian Hobby)			
121.		Falco peregrinus (Peregrine Falcon)		S	
122.		Falco peregrinus subsp. macropus (Australian Peregrine Falcon)		S	
	20	, also peregrinae easept mastepae (nastanari eregrine nation)		9	
Felidae					
123.	24041	Felis catus (Cat)	Υ		
Gekkonidae					
124.		Christinus marmoratus (Marbled Gecko)			
		Cimolina manneralae (maisies costo)			
łalcyonidae)				
Halcyonidae 125.		Dacelo novaeguineae (Laughing Kookaburra)	Υ		
	30901	Dacelo novaeguineae (Laughing Kookaburra) Todiramphus sanctus (Sacred Kingfisher)	Y		
125. 126.	30901 25549		Y		
125. 126. Hirundinida	30901 25549	Todiramphus sanctus (Sacred Kingfisher)	Y		
125. 126. Hirundinida 127.	30901 25549 e 24491	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow)	Y		
125. 126. Hirundinida	30901 25549 e 24491	Todiramphus sanctus (Sacred Kingfisher)	Y		
125. 126. Hirundinida 127. 128.	30901 25549 e 24491	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow)	Y		
125. 126. Hirundinida 127. 128.	30901 25549 e 24491 25629	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow)	Y		
125. 126. Hirundinidae 127. 128. Hylidae	30901 25549 e 24491 25629 25378	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin)	Y		
126. Hirundinidae 127. 128. Hylidae 129. 130.	30901 25549 e 24491 25629 25378	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin) Litoria adelaidensis (Slender Tree Frog)	Y		
125. 126. Hirundinidae 127. 128. Hylidae 129. 130. Hyriidae	30901 25549 e 24491 25629 25378 25388	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin) Litoria adelaidensis (Slender Tree Frog) Litoria moorei (Motorbike Frog)	Y	04	
125. 126. Hirundinidae 127. 128. Hylidae 129. 130.	30901 25549 e 24491 25629 25378 25388	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin) Litoria adelaidensis (Slender Tree Frog)	Y	P4	
125. 126. Hirundinidae 127. 128. Hylidae 129. 130. Hyriidae	30901 25549 e 24491 25629 25378 25388	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin) Litoria adelaidensis (Slender Tree Frog) Litoria moorei (Motorbike Frog)	Y	P4	
125. 126. Hirundinidae 127. 128. Hylidae 129. 130. Hyriidae 131.	30901 25549 e 24491 25629 25378 25388 34113	Todiramphus sanctus (Sacred Kingfisher) Hirundo neoxena (Welcome Swallow) Hirundo nigricans (Tree Martin) Litoria adelaidensis (Slender Tree Frog) Litoria moorei (Motorbike Frog)	Y	P4 T	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Ixodidae					
134.	-13367	Amblyomma triguttatum			
	.0001	, in a figuration			
Julidae	12100	Ommoteivilva mavalatii			
135.	-13100	Ommatoiulus moreletii			
Labridae					
136.		Coris auricularis			
137.	-16927	Notolabrus parilus			
Lamponidae					
138.	-1741	Lampona cylindrata			
Laridae					
139.	25637	Larus novaehollandiae (Silver Gull)			
140.	25638	Larus pacificus (Pacific Gull)			
Leporidae					
141.	24085	Oryctolagus cuniculus (Rabbit)	Υ		
Limnodynas	tidae				
142.		Heleioporus eyrei (Moaning Frog)			
143.	25415	Limnodynastes dorsalis (Western Banjo Frog)			
Lycosidae					
144.	-12219	Tasmanicosa leuckartii			
145.	-12507	Venator immansueta			
Macropodida	16				
146.		Macropus fuliginosus (Western Grey Kangaroo)			
147.		Macropus irma (Western Brush Wallaby)		P4	
148.		Petrogale lateralis subsp. lateralis (Black-flanked Rock-wallaby, Black-footed Rock-		T	
		wallaby)		Т	
Maluridae					
149.	25651	Malurus lamberti (Variegated Fairy-wren)			
150.	24544	Malurus lamberti subsp. assimilis (Variegated Fairy-wren)			
151.	25652	Malurus leucopterus (White-winged Fairy-wren)			
152.		Malurus leucopterus subsp. edouardi (Barrow Is. White-winged Fairy-wren)		Т	
153.		Malurus splendens (Splendid Fairy-wren)			
154.	24552	Malurus splendens subsp. splendens (Splendid Fairy-wren)			
Meliphagidae					
155.		Acanthagenys rufogularis (Spiny-cheeked Honeyeater)			
156. 157.		Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird)			
158.		Anthochaera lunulata (Western Little Wattlebird)			
159.		Epthianura albifrons (White-fronted Chat)			
160.	25659	Lichenostomus leucotis (White-eared Honeyeater)			
161.		Lichmera indistincta (Brown Honeyeater)			
162.		Manorina flavigula (Yellow-throated Miner)			
163. 164.		Melithreptus brevirostris (Brown-headed Honeyeater) Phylidonyris nigra (White-cheeked Honeyeater)			
165.		Phylidonyris nigra subsp. gouldii (White-cheeked Honeyeater)			
166.		Phylidonyris novaehollandiae (New Holland Honeyeater)			
Meropidae 167.	24598	Merops ornatus (Rainbow Bee-eater)		IA	
				IA	
Micropholco					
168. 169.		Raveniella arenacea Raveniella cirrata			
170.		Raveniella peckorum			
		·			
Mimetidae 171.	-127/17	Australomimetus ovidi			
171.	-12/4/	Australomimetus oviul			
Molossidae					
172.	24185	Tadarida australis (White-striped Freetail-bat)			
Monacanthid	lae				
173.	-16940	Meuschenia freycineti			
Mullidae					
174.	-15261	Parupeneus chrysopleuron			
175.	-14957	Upeneichthys stotti			
Muraenidae					







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
176.	-16934	Gymnothorax prasinus			Area
Muridae					
177.	24223	Mus musculus (House Mouse)	Υ		
178.		Pseudomys albocinereus (Ash-grey Mouse)			
179.	24243	Rattus fuscipes (Western Bush Rat)			
180.	24245	Rattus rattus (Black Rat)	Υ		
Myobatrachi	dab				
181.		Crinia insignifera (Squelching Froglet)			
182.		Myobatrachus gouldii (Turtle Frog)			
183.		Pseudophryne guentheri (Crawling Toadlet)			
N		, , , , ,			
Nemesiidae	10005	Anama mainaa			
184.	-12895	Aname mainae			
Neosittidae					
185.	25673	Daphoenositta chrysoptera (Varied Sittella)			
Odacidae					
186.	-14239	Odax cyanomelas			
		,			
Oecobiidae	40400	Occabing many			
187.	-13468	Oecobius navus			
Otariidae					
188.	24210	Neophoca cinerea (Australian Sea Lion)		S	
Pachycephal	lidae				
189.		Colluricincla harmonica (Grey Shrike-thrush)			
190.		Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush)			
191.		Pachycephala pectoralis (Golden Whistler)			
192.	24623	Pachycephala pectoralis subsp. fuliginosa (Golden Whistler)			
193.	25680	Pachycephala rufiventris (Rufous Whistler)			
194.	24624	Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
Paradoxosor	matidae	•			
195.		Antichiropus whistleri			
196. Pardalotidae		Westrarchaea spinosa			
197.		Pardalotus punctatus (Spotted Pardalote)			
198.	25682	Pardalotus striatus (Striated Pardalote)			
Pataecidae					
199.	-14241	Aetapcus maculatus			
Pelecanidae					
200.	24648	Pelecanus conspicillatus (Australian Pelican)			
Peramelidae					
201.		Isoodon obesulus (Southern Brown Bandicoot)		P5	
202.		Isoodon obesulus subsp. fusciventer (Quenda, Southern Brown Bandicoot)		P5	
Darinatanaid	la a				
Peripatopsid 203.		Occiperipatoides gilesii			
203.	-13409	Occiperipatolides gilesii			
Petroicidae					
204.		Eopsaltria australis subsp. griseogularis (Western Yellow Robin)			
205.		Eopsaltria georgiana (White-breasted Robin)			
206.		Microeca fascinans (Jacky Winter)			
207.		Petroica goodenovii (Red-capped Robin)			
208.	∠5695	Petroica multicolor (Scarlet Robin)			
Phalacrocora	acidae				
209.	25697	Phalacrocorax carbo (Great Cormorant)			
210.		Phalacrocorax melanoleucos (Little Pied Cormorant)			
211.		Phalacrocorax sulcirostris (Little Black Cormorant)			
212.	25699	Phalacrocorax varius (Pied Cormorant)			
Phalangerida	ae				
213.		Trichosurus vulpecula (Common Brushtail Possum)			
Phasianidae					
214.	25701	Coturnix ypsilophora (Brown Quail)			
	20,01				
Pholcidae					
215.	-12657	Pholcus phalangioides			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic T	o Query
Physeteridae						
216.	24073	Physeter macrocephalus (Sperm Whale)		P4		
Podargidae	05700	Parlament discisles (Tourne Forms with)				
217.		Podargus strigoides (Tawny Frogmouth)				
Podicipedida 218.		Podiceps cristatus (Great Crested Grebe)				
219.		Poliocephalus poliocephalus (Hoary-headed Grebe)				
220.	25705	Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)				
Pomacentrida	ae					
221.	-14959	Parma victoriae				
Potoroidae						
222. 223.		Bettongia lesueur subsp. graii (Boodie, Burrowing Bettong) Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong)		Т		
		Detailing a periodical subsp. Oglibyi (Woylie, Drasit-tailed Detailing)		ı		
Procellariidae		Halobaena caerulea (Blue Petrel)				
225.		Macronectes giganteus (Southern Giant Petrel)		P4		
226.	24693	Pachyptila desolata (Antarctic Prion)				
227.		Puffinus carneipes (Fleshy-footed Shearwater)		IA		
228.	24716	Puffinus pacificus (Wedge-tailed Shearwater)		IA		
Psittacidae	05740	Constitute relativity (Cullabury expected Conduction)				
230.		Cacatua galerita (Sulphur-crested Cockatoo) Cacatua pastinator (Western Long-billed Corella)				
231.		Cacatua roseicapilla (Galah)				
232.	25716	Cacatua sanguinea (Little Corella)				
233.		Cacatua sanguinea subsp. westralensis (Little Corella)				
234. 235.		Cacatua tenuirostris (Eastern Long-billed Corella) Calyptorhynchus banksii (Red-tailed Black-Cockatoo)	Υ			
236.		Calyptorhynchus baudinii (Baudin's Cockatoo (long-billed black-cockatoo), Baudin's		-		
		Cockatoo)		Т		
237.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		Т		
238.	24735	Glossopsitta porphyrocephala (Purple-crowned Lorikeet)				
239.		Neophema elegans (Elegant Parrot)				
240.		Platycercus icterotis (Western Rosella)				
241. 242.		Platycercus spurius (Red-capped Parrot) Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)				
243.		Platycercus zonarius subsp. semitorquatus (Twenty-eight Parrot)				
244.	25722	Polytelis anthopeplus (Regent Parrot)				
245.	25723	Trichoglossus haematodus (Rainbow Lorikeet)				
Pygopodidae	!					
246.		Aprasia repens (Sand-plain Worm-lizard)				
247. 248.		Delma concinna (Javelin Legless Lizard) Delma concinna subsp. concinna (Javelin Legless Lizard)				
249.		Delma fraseri (Fraser's Legless Lizard)				
250.	24999	Delma grayii				
251.		Lialis burtonis				
252. 253.		Pletholax gracilis subsp. gracilis (Keeled Legless Lizard) Pygopus lepidopodus (Common Scaly Foot)				
	23000	- 19-F				
Rallidae 254.	25727	Fulica atra (Eurasian Coot)				
255.		Gallinula tenebrosa (Dusky Moorhen)				
256.		Gallirallus philippensis (Buff-banded Rail)				
257.		Porphyrio porphyrio (Purple Swamphen)				
258. 259.		Porzana fluminea (Australian Spotted Crake) Porzana tabuensis (Spotless Crake)				
		(
Recurvirostri 260.		Cladorhynchus leucocephalus (Banded Stilt)				
261.		Himantopus himantopus (Black-winged Stilt)				
262.	24776	Recurvirostra novaehollandiae (Red-necked Avocet)				
Salticidae						
263.	-1698	Ocrisiona leucocomis				
Scincidae						
264.		Acritoscincus trilineatus (Western Three-lined Skink)				
265.	30893	Cryptoblepharus buchananii				
				Department of	ď	







N	lame ID	Species Name Natura	lised Conservation Code	¹ Endemic To Que Area
266.		Ctenotus australis		
267.		Ctenotus fallens		
268.		Cyclodomorphus celatus (Western Slender Blue-tongue)		
269.		Egernia kingii (King's Skink)		
270.		Egernia napoleonis		
271.		Hemiergis quadrilineata		
272.		Lerista distinguenda		
273.		Lerista elegans		
274.		Lerista lineopunctulata		
275.		Lerista praepedita		
276.		Menetia greyii		
277.		Morethia lineoocellata Morethia obscura		
278.				
279.		Tiliqua occipitalis (Western Bluetongue)		
280. 281.		Tiliqua rugosa		
201.	23207	Tiliqua rugosa subsp. rugosa		
Scolopacidae				
282.	41323	Actitis hypoleucos (Common Sandpiper)	IA	
283.	24784	Calidris ferruginea (Curlew Sandpiper)	T	
284.	24788	Calidris ruficollis (Red-necked Stint)	IA	
285.	25741	Limosa limosa (Black-tailed Godwit)	IA	
286.	24808	Tringa nebularia (Common Greenshank)	IA	
Saalanandrid				
Scolopendrid				
287.		Cormocephalus aurantiipes		
288.		Cormocephalus novaehollandiae		
289.		Cormocephalus rubriceps		
290.		Cormocephalus turneri		
291.	-1667	Ethmostigmus rubripes		
Sillaginidae 292.	-15064	Sillago schomburgkii		
Sparassidae				
293.	-12890	Isopeda leishmanni		
Spheniscidae 294.	24818	Eudyptula minor subsp. novaehollandiae (Little Penguin)		
Strigidae 295.	25748	Ninox novaeseelandiae (Boobook Owl)		
Sylviidae 296.	25755	Acrocephalus australis (Australian Reed Warbler)		
297.		Cincloramphus mathewsi (Rufous Songlark)		
298.		Megalurus gramineus (Little Grassbird)		
290.	23730	iviegalulus graniineus (Little Grassbird)		
Tachyglossid:	ae			
299.	24207	Tachyglossus aculeatus (Short-beaked Echidna)		
Tarsipedidae 300.	24167	Tarsipes rostratus (Honey Possum, Noolbenger)		
Tettigoniidae				
301.	33973	Austrosaga spinifer (cricket)	P3	
301.		Austrosaga spinifer (cricket)	P3	
301. Threskiornithi	idae		P3	
301. Threskiornithi 302.	i dae 24841	Platalea flavipes (Yellow-billed Spoonbill)	P3	
301. Threskiornithi 302. 303.	i dae 24841 24842	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill)		
301. Threskiornithi 302. 303. 304.	24841 24842 24843	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis)	P3 IA	
301. Threskiornithi 302. 303.	24841 24842 24843	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill)		
301. Threskiornithi 302. 303. 304.	24841 24842 24843 24844	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis)		
301. Threskiornithi 302. 303. 304. 305. 306.	24841 24842 24843 24844	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis)		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae	24841 24842 24843 24844 24845	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis)		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae 307.	24841 24842 24843 24844 24845	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis		
301. Chreskiornithi 302. 303. 304. 305. 306. Cyphlopidae 307. 308.	24841 24842 24843 24844 24845 25271 25285	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae 307. 308. 309. Tytonidae	24841 24842 24843 24844 24845 25271 25285 25288	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis Ramphotyphlops waitii		
301. Fhreskiornithi 302. 303. 304. 305. 306. Fyphlopidae 307. 308. 309.	24841 24842 24843 24844 24845 25271 25285 25288	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae 307. 308. 309. Tytonidae 310.	24841 24842 24843 24844 24845 25271 25285 25288 25762	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis Ramphotyphlops waitii		
301. Fhreskiornithi 302. 303. 304. 305. 306. Fyphlopidae 307. 308. 309. Fytonidae 310. Jrodacidae 311.	24841 24842 24843 24844 24845 25271 25285 25288 25762	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis Ramphotyphlops waitii Tyto alba (Barn Owl)		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae 307. 308. 309. Tytonidae 310. Urodacidae 311. Varanidae	24841 24842 24843 24844 24845 25271 25285 25288 25762	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis Ramphotyphlops waitii Tyto alba (Barn Owl) Urodacus novaehollandiae		
301. Threskiornithi 302. 303. 304. 305. 306. Typhlopidae 307. 308. 309. Tytonidae 310. Urodacidae	24841 24842 24843 24844 24845 25271 25285 25288 25762 -11701	Platalea flavipes (Yellow-billed Spoonbill) Platalea regia (Royal Spoonbill) Plegadis falcinellus (Glossy Ibis) Threskiornis molucca (Australian White Ibis) Threskiornis spinicollis (Straw-necked Ibis) Ramphotyphlops australis Ramphotyphlops pinguis Ramphotyphlops waitii Tyto alba (Barn Owl)		





Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised

Veliferidae

314. -15138 Metavelifer multiradiatus

Vespertilionidae

24186 Chalinolobus gouldii (Gould's Wattled Bat) 315. 316. 24194 Nyctophilus geoffroyi (Lesser Long-eared Bat)

Zodariidae

-13364 Masasteron sampeyae 317.

Zosteropidae

318. 25765 Zosterops lateralis (Grey-breasted White-eye, Silvereye)

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 wholely 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.



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