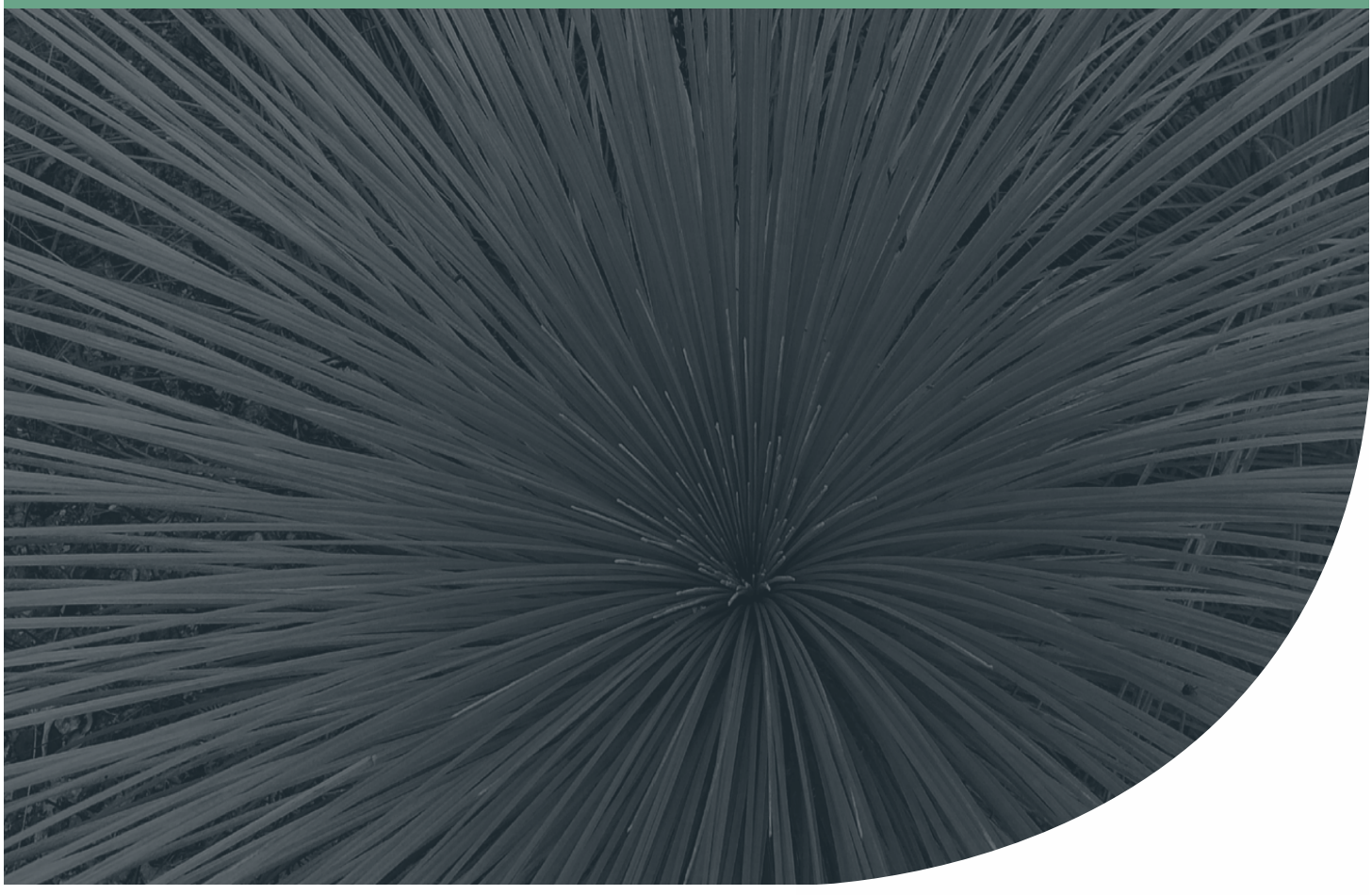
Native Vegetation Clearing Permit Application

Part Lot 822 Youle-Dean Road, Brabham.

Project No: EP19-073 (63)

Prepared for Peet Limited
September 2026



Document Control

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Executive Summary

Peet Limited (the applicant) on behalf of DevelopmentWA (the landowner) are progressing development approval within 3.85 ha within part Lot 822 Youle-Dean Road, Brabham (herein known as 'the site') of which 2.9 ha of native vegetation is the subject of this clearing permit. The balance of Lot 822 has both structure plan and subdivision approvals. The EPBC Act approval is due to expire in December 2026 and this 3.85 ha has the remaining 2.9 ha vegetation to be removed as part of this Commonwealth approval. Given a structure plan and subdivision is imminent over this site, the applicant has proceeded with a clearing permit to meet the compliance timeframe of the EPBC Act approval.

This Native Vegetation Clearing Permit Application (NVCP) seeks approval to clear:

- 2.9 ha of 'native vegetation' as defined by the *Environmental Protection Act 1986* (EP Act).
- 0.00066 ha (one grass tree) of secondary native foraging habitat for Carnaby's black cockatoo (CBC) and Baudin's black cockatoo (BCC) but not for forest red-tailed black cockatoo.

A summary of the clearing principles applied to the application area has been provided below in **Table 1**.

Table 1: Clearing Principles Assessment Summary

Clearing principle	Levels of variance	Summary of relevant response to clearing permit principle
Principle (a)	Not at variance	The application area supports values typical of the Southern River Complex and does not meet the threshold for a "high level of biological diversity" in a regional or local context.
Principle (b)	Not at variance	The site lacks critical resources (breeding or roosting) and does not represent a primary or necessary foraging resource for the maintenance of local indigenous fauna populations.
Principle (c)	Not at variance	No Threatened flora (Rare Flora) listed under the *Biodiversity Conservation act 2016* (BA Act) were recorded within the application area; Priority flora present do not meet the statutory criteria for this principle.
Principle (d)	Not at variance	No Threatened Ecological Communities (TECs) listed under the BC Act occur within or are maintained by the vegetation in the application area.
Principle (e)	May be at variance	The Southern River Complex retains approximately 18.5% of its pre-European extent, less than the 30% threshold defined by State and Commonwealth frameworks.
Principle (f)	Not at variance	The application area does not contain any defined watercourses, wetlands, or riparian vegetation.
Principle (g)	Not at variance	While sandy soils are present, the majority of the cleared area will be stabilised by soil stabilising techniques, preventing appreciable land degradation.
Principle (h)	Not at variance	The proposed clearing is not located within, adjacent to, or in the immediate vicinity of any managed conservation estate or Bush Forever sites.
Principle (i)	Not at variance	High soil permeability and the absence of surface water features ensure that clearing will not result in the deterioration of surface or underground water quality. Furthermore, the application area sits outside any Public Drinking Water Source Areas
Principle (j)	Not at variance	A number of minor drains exist within the north-western portion of the site. There are no Ramsar wetlands, geomorphic wetlands (DBCA 2025), streams, creeks that occur on or adjacent to the site.

		The clearing of vegetation in the clearing footprint is not expected to cause or exacerbate the incidence or intensity of flooding in this area.

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Appendix A

EPBC Act 2015/7458 Approval

Appendix B

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Appendix C

Flora and Vegetation Assessment (Emerge, 2024)

Appendix D

Tree Survey (Emerge, 2023)

Abbreviation Tables

Table A1: Abbreviations – Organisations

Organisations	
BoM	Bureau of Meteorology
DAWE	Department of Agriculture, Water and the Environment (now known as DCCEEW)
DBCA	Department of Biodiversity, Conservation and Attractions
DPIRD	Department of Primary Industries and Regional Development
DoW	Department of Water (now known as DWER)
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority

Table A2: Abbreviations – General terms

General terms	
ESA	Environmentally sensitive area
FCT	Floristic community type
SCP	Swan Coastal Plain Floristic Community Type
P1, P2, P3, P4	Priority plant species under the BC Act
PEC	Priority ecological community
TEC	Threatened ecological community

Table A3: Abbreviations –Legislation

Legislation	
EP Act	Environmental Protection Act 1986
RIWI Act	Rights in Water and Irrigation Act 1914
BC Act	Biodiversity Conservation Act 2016
BAM Act	Biosecurity and Agriculture Management Act 2007

Table A4: Abbreviations – units of measurement

Units of measurement	
ha	Hectare
mAHD	Meters in relation to the Australian height datum

1 Introduction

Peet Limited (the applicant) on behalf of DevelopmentWA (the landowner) are progressing development approval within 3.85 ha within part Lot 822 Youle-Dean Road, Brabham (herein known as 'the site') of which 2.9 ha of native vegetation is the subject of this clearing permit.

The site is situated within the remainder of Lot 822 Youle-Dean Road which has been subject to both structure plan and multiple subdivision approvals through the Western Australian Planning Commission (WAPC). This site is an extension of the development within the adjacent Local Structure Plan and Subdivision approvals within the remainder of Lot 822.

Further to the approvals under the *Planning and Development Act 2005* the site has an *Environment Protection and Biodiversity Conservation Act* approval which extends to the whole of Lot 822 (EPBC approval 2015/7458 in **Attachment A**). The EPBC Act approval expires on the 31 December 2026.

The development of Lot 822 including this site is consistent with the 2009 approved *Albion District Structure Plan* (DSP) and is supported by the more recent construction of the Whiteman Park Metronet Station. The land development for the site is also consistent with 'residential development' zoning under the City of Swan's *Local Planning Scheme No 2*.

While a Structure Plan is still required to be formally progressed, the land between the emerging Brabham Estate and Whiteman Park Station is intended to accommodate a compact, transit-oriented residential community, with opportunities for complementary mixed-use development that leverages the site's direct access to the station and proximity to the Brabham District Centre. Key outcomes established by an overarching master plan include higher-density residential development supported by an interconnected street network that prioritises walking and cycling, while encouraging public transport use through direct access to Whiteman Park Station via the existing Drumpellier Drive pedestrian underpass. The highest-density development is envisaged closest to the station, transitioning to a lower-density suburban environment on the periphery of the precinct. The development is hereafter referred to as the 'clearing footprint'.

1.1 Purpose and Scope

This report supports the native vegetation clearing permit (NVCP) application pursuant to Part V of the *Environmental Protection Act 1986* (EP Act).

1.2 Applicant and Site details

Details of the site are outlined below in **Table 2**:

Table 2: Applicant and Site details

Property	Description
Land description	Part Lot 822 Youle-Dean Road, Brabham (See **Figure 1**)
Property Area	The site is 3.85 ha of Lot 822. The clearing footprint is 2.9 ha.
Zoning	Residential Development – City of Swan Local Planning Scheme No 2.
Owner/ Applicant	DevelopmentWA (owner) Peet Industries (Applicant)

1.3 Environmental Assessments

The NVCP application is supported by the following environmental surveys and approvals that include the site within part Lot 822:

- EPBC Act approval 2015/7458 **Appendix A**
- Basic Fauna and Targeted Black Cockatoo Assessment (Emerge 2023) **Appendix B**
- Detailed Flora and Vegetation Assessment (Emerge, 2024) **Appendix C**
- Tree Survey (Emerge, 2023) **Appendix D**

2 Proposed Clearing

The application is for the clearing of up to 2.9 ha of native vegetation (see **Figure 2**). A summary of the flora and fauna habitat values is provided in **Table 3** and shown in **Figure 3** to **Figure 5**.

Table 3: Site – native vegetation clearing summary and values

Vegetation Value	Application Area	
Native Vegetation	**Vegetation Units**	**Vegetation condition**
	ErMp: 2.09 ha **Mr**: 0.81 ha **Non-native:** 0.95 ha	**Completely Degraded**: 0 ha **Degraded**: 2.66 ha **Good**: 0.24 ha **Very Good**: 0 ha **Excellent**: 0 ha
Environmentally Sensitive Area (ESA): Yes/No	No	
Threatened Ecological Community (TEC) and Priority Ecological Community) PEC	None	
Priority Flora (*Biodiversity Conservation Act 2016* (BC Act))	None	
Black cockatoo foraging habitat (ha)	0.00066 ha of native secondary foraging habitat for Carnaby's black cockatoo and Baudin's black cockatoo (one grass tree)	

3 Summary of Environmental Conditions

3.1 Historical land uses and clearing

Based on a review of publicly available historical aerial imagery (WALIA 2023), and review of previous historical records, the site was used as an airfield during WWII. The Caversham Airfield (also known as Middle Swan Airfield) was constructed in the 1940s and utilised by the United States Army Air Corps. In 1946 the airfield was later utilised as a motor racing circuit until 1969, when it then returned as an airfield military facility for the purpose of radio communications (Dunn 2015).

Vegetation cover was reduced during this time, but regeneration is discernible between 1965 and the present.

3.2 Topography

The site is generally flat, with a stable elevation of approximately 22 m Australian Height Datum (AHD) in the site.

3.3 Soils

Regional soil association mapping indicates that the site is within the Southern River association of the Bassendean dunes. (Churchward and McArthur 1980).

Geotechnical investigations were undertaken across the site by Galt Geotechnics in September 2015, as part of wider investigations across the broader Brabham landholdings. The findings of these investigations confirm the regional geological mapping (Galt Geotechnics 2015), indicating that soils underlying the site are generally comprised of topsoil (sand) overlaying Sand (SP), extending to a depth of investigation of 4 m.

Acid Sulfate Soils (ASS) mapping from the Department of Water and Environmental Regulation (DWER) indicates that the site has a 'moderate to low risk' of ASS within 3 m of the natural soil (DWER 2025a).

A broad Acid Sulfate Soil Investigation was undertaken within the site and across the broader Albion District Structure Plan area (including the broader Brabham landholdings) by Douglas Partners between February and April 2006. Soil samples were taken from drilled boreholes in the site, as shown below in **Plate 1**. It is noted that more recent soil sampling was undertaken within the site as part of the (Galt Geotechnics 2015) sampling, however this sampling did not include an acid sulfate soil investigation.

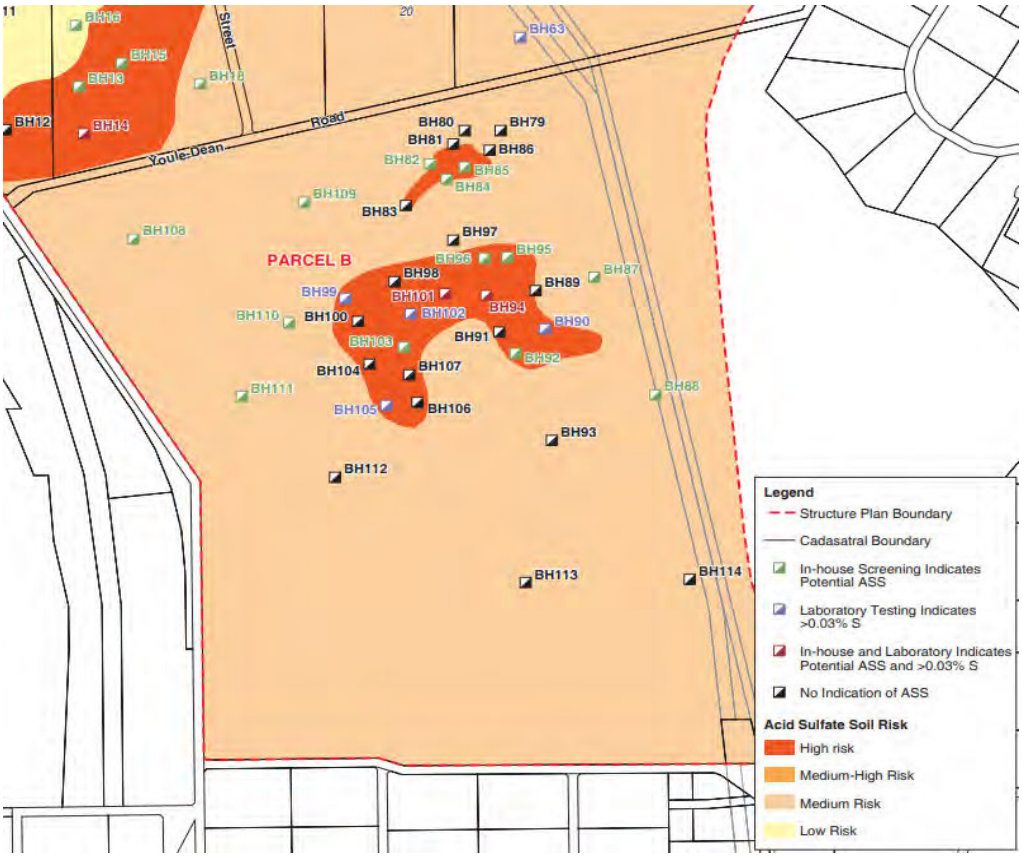


Plate 1: Acid sulfate soil risk mapping taken from Douglas Partners (2006), showing the location of boreholes

The results indicate that the ASS within Lot 822 is likely to occur in localised areas, and the potential acidity levels of the impacted areas within the site of clearing is low and would not place unreasonable requirements on development (Galt Geotechnics 2015).

3.4 Water

3.4.1 Groundwater

3.4.1.1 Regional groundwater

Information on the regional groundwater resources obtained from the *Water Register* (DWER 2022), indicates that the site is underlain by a multi-layered aquifer system comprised of the following resources:

- Perth – Mirrabooka aquifer (semi-confined).
- Perth - Superficial Swan aquifer (unconfined).
- Perth – Leederville aquifer (confined).

Groundwater in the superficial aquifer (Perth – Superficial Swan) is recharged directly from rainfall, and is contained in sand and clay, which have an accumulated depth average saturated thickness of about 40 m (JDA 2009).

The Department of Water *Perth Groundwater Map (DWER 2023),* indicates historical maximum groundwater levels 32 m AHD in the northwest portion of the site. Based on the topographic contours, groundwater is expected to be located near the natural soil surface, with a depth to groundwater ranging from approximately 1 m to 4 m across the site. Groundwater is expected to generally flow in a south-easterly direction towards the Swan River, located to the east of the site.

3.4.1.2 Site-specific groundwater data

Groundwater level monitoring was carried out by Galt Geotechnics in 2015 within the broader Brabham landholdings. A monitoring well was installed within the north-west corner (MW02) the depth to groundwater being approximately 1.0 m AHD within MW02.

3.4.2 Surface Water

The site is located in the Swan River catchment area as identified through the DWER *Hydrographic Catchments* dataset. At a local level, the site is located within the St Leonards Creek catchment, which drains to the south-east of the site, into the Swan River (JDA 2009). The site is not located within the 100-year Average Recurrence Interval (ARI) floodplain development control area of the Swan River.

A number of minor drains exist within the north-western portion of the site. There are no Ramsar wetlands, geomorphic wetlands (DBCA 2025), streams, creeks or major drains that occur on or adjacent to the site.

3.4.3 Wetlands

A review of the *Geomorphic Wetlands on the Swan Coastal Plain* dataset (DBCA 2020) indicates that whilst two resource enhancement wetlands (REWs) are mapped within Lot 822, this portion of the Lot 822 (the site) does not have mapped wetlands.

3.5 Flora and vegetation assessment

Emerge undertook a flora and vegetation assessment across the entire Lot 822 including the clearing footprint area (Emerge, 2024). The assessment was completed to a 'detailed' survey standard in accordance with the Environmental Protection Authority (EPA) *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016). Emerge completed the detailed flora and vegetation assessment with surveys conducted during 29 and 30 September 2021 and 10 January and 24 March 2022, during which the composition and condition of vegetation was recorded. The assessment report is provided as **Appendix B**.

3.5.1 Regional Vegetation Complexes

The site is located within the Perth subregion of the Swan Coastal Plain, which is characterised as mainly containing *Banksia* woodland on leached sands with *Melaleuca* swamps and woodland of *Eucalyptus gomphocephala* (tuart), *E. marginata* (jarrah) and *Corymbia calophylla* (marri) (Beard 1990).

At a regional scale, vegetation complex mapping undertaken by Heddle *et al.* (1980) indicates the site occurs within the Southern River Complex, the description of which is described as "Open woodland of *Corymbia calophylla - Eucalyptus marginata - Banksia spp*. with fringing woodland of *Eucalyptus rudis - Melaleuca rhaphiophylla* along creek beds. In 2018, there was estimated to be 18.4% of the pre-European extent of the Southern River Complex remaining on the Swan Coastal Plain (Government of Western Australia 2018).

3.5.2 Threatened or Priority Flora

One priority flora species *Verticordia lindleyi subsp. Lindleyi* (P4) was recorded as occurring within Lot 822 but outside off the clearing footprint. No other threatened of priority flora was observed across Lot 822 likely due to its historical disturbance.

3.5.3 Plant communities and condition

The detailed flora and vegetation assessment (**Appendix B**) identified nine plant communities within Lot 822 and only three within the clearing footprint, as shown on **Figure 2.** The vegetation condition across the clearing area ranged from 'completely degraded to degraded to good' condition using methods from (Keighery 1994) and as shown on **Figure 3**.

Vegetation units and condition within the clearing area are summarized below **Table 4**:

Table 4:: Vegetation values within application area

Environmental Units	Vegetation condition (Keighery 1994)	Application Area (ha)
ErMp Low open forest of Eucalyptus rudis and Melaleuca preissiana over sparse forbland dominated by weeds.	Degraded	2.09
Mr Low closed forest of Melaleuca rhaphiophylla over sparse to closed sedge/rush land of Leptocarpus decipiens, Baumea juncea, Juncus pallidus and *Juncus microcephalus over open forbland of Centella asiatica, Lobelia anceps and *Mentha pulegium	Good to degraded	0.81
Cleared or non-native vegetation Heavily disturbed areas comprising bare ground and weeds with occasional native trees, shrubs or forbs.	Completely degraded (0.95 ha)	0.95

3.5.4 Threatened Ecological Communities and Priority Ecological Communities

Whilst the *Detailed Flora and Vegetation Survey Lot 822 Youle-Dean Road, Brabham* (Emerge Associates 2022) determined 'Banksia woodlands of the Swan Coastal Plain' TEC (Banksia Woodlands TEC) and PEC occurs within Lot 822 none of this TEC or PEC exists within the clearing footprint.

3.6 Fauna

Emerge completed a Basic Fauna Survey and Targeted Black Cockatoo Assessment field survey of the entire Lot 822 in January 2023, to the standards of the *Technical Guidance - Terrestrial vertebrate fauna surveys for environmental impact assessment* (EPA 2020). The fauna assessment report is attached as **Appendix B**. The application area specific fauna habitat is described below.

3.6.1 Fauna Habitat

There are three of the six fauna habitat identified within the clearing footprint. The description and size of the area of each habitat is provided in below in **Table 5**:

Table 5: Fauna Habitat

Code	Description	Area
Closed forest	• Low closed forest of *Melaleuca* spp. with some areas prone to inundation (**Plate 2**)	0.81 ha
Open forest	• Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sparse forbland dominated by weeds (**Plate 3**).	2.09 ha
Cleared	• Heavily disturbed areas comprising bare ground and weeds with occasional native • trees (**Plate 4**).	0.95 ha

The following plates show each fauna habitat type.



Plate 2: Fauna habitat – closed forest



Plate 3: Fauna habitat – open forest



Plate 4: Fauna habitat - cleared

3.6.2 Black Cockatoos

A total of 0.00066 ha of native secondary foraging habitat for Carnaby's black cockatoo was recorded in the clearing area as shown in **Figure 7**.

The site does not support habitat that would be suitable for breeding or roosting for any of the three species of black cockatoo. There are no known roosts associated with black cockatoos within 1000m of the site. The closest roost is approximately 2.3km to the west.

3.6.3 Potential nesting trees

Nine potential habitat trees of the same species *Eucalyptus rudis* were recorded across the clearing area as shown by **Figure 4** however none had hollows suitable for black cockatoo nesting**.**

A tree survey was undertaken by Emerge 2022 (**Appendix D**) which outlines the tree locations, species and retention value. A summary of the clearing footprint tree values is provided in **Table 6** below:

Table 6:: Summary of tree values in clearing footprint

Tree Description	Number of Trees
Potential nesting trees (**Figure 4**)	9
One tree species present - *Eucalyptus rudis* (**Figure 5**)	9
Tree retention value is all 'moderate' (**Figure 6**)	9

Retention values are classified as 'high', 'moderate' and 'low' by considering the useful life expectancy and ecological or cultural significance of each tree.

3.7 Application of Mitigation Hierarchy

In accordance with *A guide to the assessment of applications to clear native vegetation* by the Department of Environment Regulation (DER) (now DWER), the mitigation hierarchy has been considered.

3.7.1 Avoidance

The whole of Lot 822 has been considered in structure planning and subdivision approvals processes to formalise public open space, specifically for retention of environmental features such as Banksia woodlands of the Swan Coastal Plain TEC and black cockatoo foraging habitat which are represented in areas of Lot 822 and compliment the adjacent Bush forever sites. This clearing particularly avoids black cockatoo habitat with only 0.00066 ha in the clearing footprint. Further the EPBC Act approval appropriately applies offsets for black cockatoo foraging habitat that is lost across other areas of Lot 822.

3.7.2 Mitigation

Clearing activities will be managed in accordance with a Construction Environmental Management Plan (CEMP) that is provided by the Civil Contractor and the adjacent Vegetation and Fauna Management Plan (VFMP) for the site will also apply as this outlines procedures for vegetation clearing and fauna management. Mitigation methods include:

- Clearly defining the extent of the clearing footprint before any clearing activities commence, and vehicle and personnel access limitations to within the application area.
- Implementation of hygiene protocols during the clearing and construction process to appropriately manage construction to prevent potential spread of weeds, dieback and feral animals into areas of retained vegetation. This will include:
    - Vehicles, machinery, and personnel to be free of mud/soil and plant material upon entering the site. Inspections to be completed prior to works commencing.
    - Minimising clearing and earthworks during wet conditions.
    - Using landscaping species not identified as weeds.
    - Ensuring the project is maintained in a clean and tidy manner to ensure feral and other species are not attracted to the site. Waste material is to be disposed of appropriately through waste services and/or to licenced landfill during construction and as part of ongoing operation.
    - Dust: Use water carts/suppressants on high-traffic and exposed areas during dry, windy conditions. Implement site speed limits and stabilise or cover long-term stockpiles.
    - Noise: Limit works to standard hours (07:00–19:00, Monday–Saturday) per the *Environmental Protection (Noise) Regulations 1997*. Ensure all equipment is well-maintained and fitted with mufflers.
    - Sediment & Erosion: Install silt fences or traps downslope of disturbed areas. Use progressive clearing to limit soil exposure and direct runoff toward stable, vegetated zones to promote infiltration.

3.7.3 Offsets

In accordance with the WA Environmental Offsets Policy (Government of Western Australia 2011), offsets are only required where, after all reasonable avoidance and mitigation measures have been exhausted, a proposal is likely to result in a significant residual impact on the environment.

As set out in the assessment against the 10 clearing principles (**Section 3.8**), the proposed clearing is not expected to have a significant residual impact and therefore offsets are not required.

Further offsets have been applied for Lot 822 that include the clearing footprint as per EPBC Act 2015/7458 (**Appendix A**)

3.8 Assessment against the 10 clearing principles

Proposed clearing has been assessed against the 10 Clearing Principles in accordance with *A Guide to the Assessment of Applications to Clear Native Vegetation* (DER 2014) (the Guide).

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

The clearing area has two vegetation community types of disturbed vegetation condition and in addition a cleared area. The areas of biodiversity associated with the banksia woodland is found in the southern areas of Lot 822 adjacent to the Bush forever site.

The 2.9 ha of native vegetation subject to the clearing footprint was assessed for biodiversity using the results of the flora and vegetation survey (**Appendix C**). There are no priority or threatened flora or ecological community in the clearing footprint.

Overall, the biological values of the clearing footprint are representative of the Southern River Complex and but are in a condition that do not represent high biological diversity in the local context.

The proposed clearing is not at variance with Principle (a).

3.8.2 Principle (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.

In accordance with the Guide (DER 2014), significant fauna habitat is determined by whether the vegetation provides an important role in the survival of a fauna species or community, including habitat required for breeding, nesting or roosting, important foraging habitat for conservation significant species, or ecological linkages necessary for fauna movement.

The 2.9 ha application area was assessed for its capacity to support native fauna, with particular regard to the three species of threatened black cockatoos. The fauna assessment confirmed that the application area contains 9 potential nesting trees with no suitable nesting hollows. Further these trees are all *Eucalyptus rudis* which are not known for nesting of black cockatoos. There was no evidence of roosting recorded. Accordingly, the application area does not provide breeding or roosting habitat for black cockatoos.

Approximately 0.00066 ha of the clearing footprint contains vegetation that may be used for secondary foraging by black cockatoos, namely one native grass tree therefore the application area does not constitute significant foraging habitat.

The proposed clearing is therefore not at variance with Principle (b).

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

The Guide (DER 2014) defines "rare flora", as flora listed as ‘Threatened flora’ under the BC Act 2016. No listed rare flora (Threatened flora) was recorded within the application area.

The proposed clearing is therefore not at variance to Principle (c).

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

The Guide (DER 2014) defines TECs as those listed under the BC Act. No listed TECs were recorded with the clearing application area.

The proposed clearing is therefore not at variance to Principle (d).

3.8.5 Principle (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.

The Guide (DER 2014) refers to remnant native vegetation as defined by the National Objectives and Targets for Biodiversity Conservation (Commonwealth of Australia 1999) and Position Statement No. 2 (EPA 2000). These frameworks establish a threshold of 30% of the pre-clearing extent of each ecological community, below which any further clearing is considered likely to lead to an exponential loss of species diversity.

The application area occurs within the Southern River Complex which has approximately 18.5% remaining in the Swan Coastal Plain. The 2.9 ha of native vegetation within the application area does not constitute a significant remnant in an extensively cleared landscape due to its condition and of predominantly *Melaleuca raphiophylla* and *Eucalyptus rudis* which doesn't fully represent the vegetation diversity of the Southern River Complex. The description of this vegetation complex is described as "Open woodland of *Corymbia calophylla - Eucalyptus marginata - Banksia spp*. with fringing woodland of *Eucalyptus rudis - Melaleuca rhaphiophylla* along creek beds

The proposed clearing may be at variance to Principle (e) based on the regional representation of the vegetation complex.

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

The Guide (DER 2014) applies this principle to any watercourse or wetland including those of regional or local significance. The application area does not contain any defined watercourses, wetlands, or riparian vegetation.

The proposed clearing is not at variance with Principle (f).

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

The Guide (DER 2014) identifies land degradation as including wind and water erosion, salinity, and waterlogging. Regional soil association mapping indicates that the site is within the Southern River association of the Bassendean dunes. (Churchward and McArthur 1980). Additional geotechnical investigations indicatedthat soils underlying the site are generally comprised of topsoil (sand) overlaying Sand (SP), extending to a depth of investigation of 4 m.

While these sandy soils are inherently susceptible to wind erosion, the proposed clearing is restricted to the clearing area, which will be stabilised by soil stabilisation methods as per the CEMP and VFMP that have been provided to the City of Swan.

The proposed clearing is not at variance with Principle (g).

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

The Guide (DER 2014) defines conservation areas as those managed by the DBCA, Bush Forever sites, or areas protected under a covenant. Although a Bush forever site exists adjacent to the southern boundary of Lot 822, the application area is not located within, immediately adjacent to, or nearby a conservation area.

The proposed clearing is therefore not at variance with Principle (h).

3.8.9 Principle (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.

The Guide (DER 2014) considers whether clearing will result in sedimentation, turbidity, or nutrient enrichment. Given the absence of water features and the high permeability of the sandy soils, runoff is negligible as the profile promotes rapid infiltration. Furthermore, the application area sits outside any Public Drinking Water Source Areas (PDWSAs). The proposed clearing is therefore not expected to result in the deterioration of surface or groundwater quality.

The proposed clearing is not at variance with Principle (i).

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

According to the Guide (DER 2014), this principle relates to the capacity of the landscape to manage water and whether clearing will increase the frequency or height of floodwaters. A number of minor drains exist within the north-western portion of the site. There are no Ramsar wetlands, geomorphic wetlands (DBCA 2025), streams, creeks or major drains that occur on or adjacent to the site.

The clearing of vegetation in the clearing footprint is not expected to cause or exacerbate the incidence or intensity of flooding in this area.

The proposed clearing is not at variance with Principle (j).

3.9 Summary

Based on the assessment against the ten clearing principles, the proposed clearing of 2.9 ha of native vegetation may be at variance to Principle (e) based on the regional representation of the vegetation complex but is not at variance with any of the other principles and defined standards which provides a reasonable basis for conditional approval.

4 References

4.1 General references

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Figures

Figure 1: Site Location

Figure 2: Clearing Footprint

Figure 3: Vegetation Condition

Figure 4: Potential Nesting Trees

Figure 5: Tree Species

Figure 6: Tree Retention Value

Figure 7: Black Cockatoo Habitat



Figure 1: Site Location

Project:	Clearing Permit Application Part Lot 822 Youle-Dean Road, Brabham
Client:	Peet Limited

Plan Number:
EP19-073(63)--F185

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	14/09/2026

N

0 125 250
Metres

Scale: 1:200,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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Figure 2: Clearing Footprint

Project: Clearing Permit Application
Part Lot 822 Youle-Dean Road, Brabham

Client: Peet Limited

Plan Number: EP19-073(63)--F186

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:2,500@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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©Landgate (2026). Nearmap Imagery date: 23/10/2021

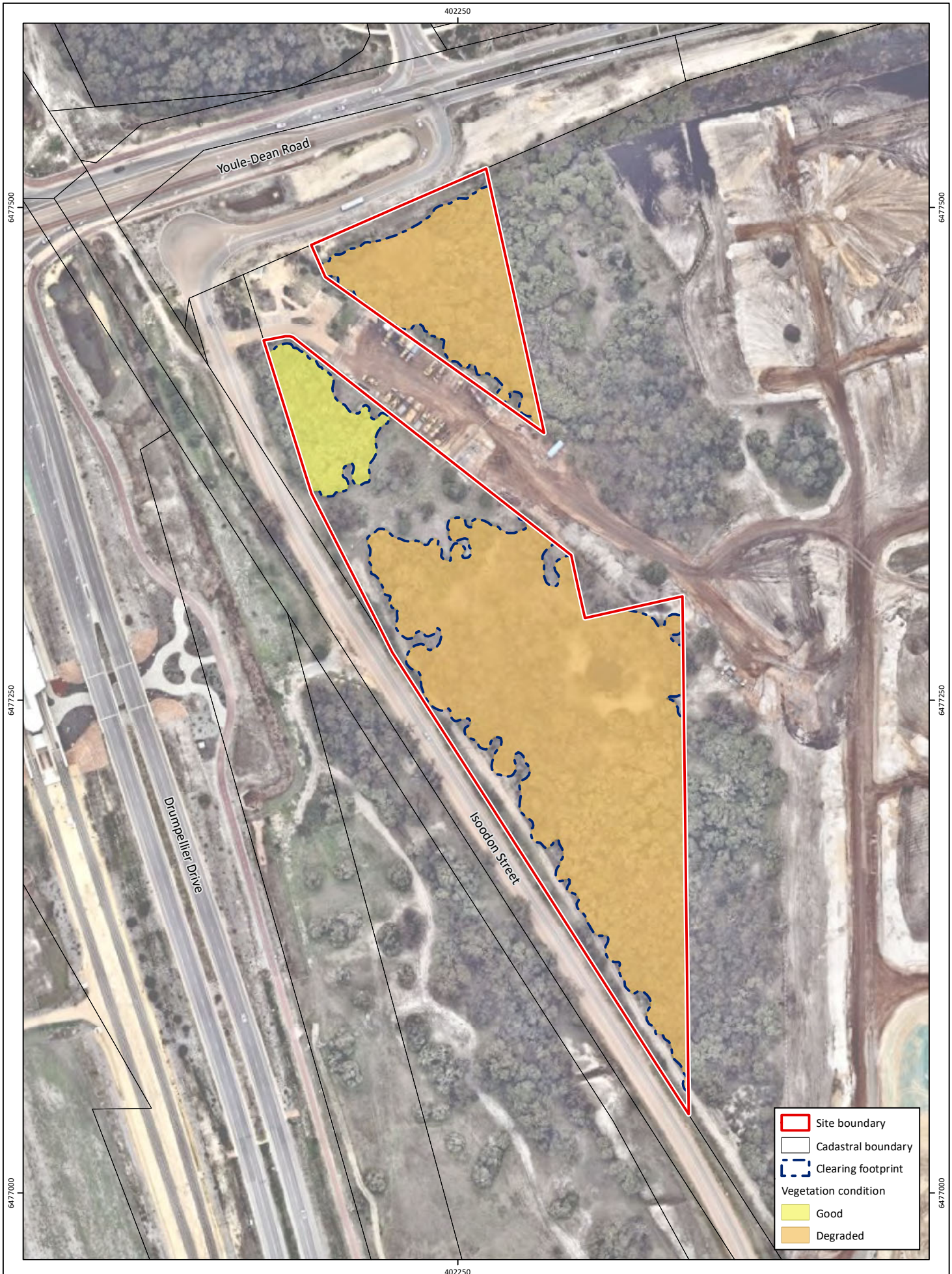


Figure 3: Vegetation Condition

Project: Clearing Permit Application
Part Lot 822 Youle-Dean Road, Brabham

Client: Peet Limited

Plan Number: EP19-073(63)--F187

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:210,000@A4

GDA 1994 MGA Zone 50

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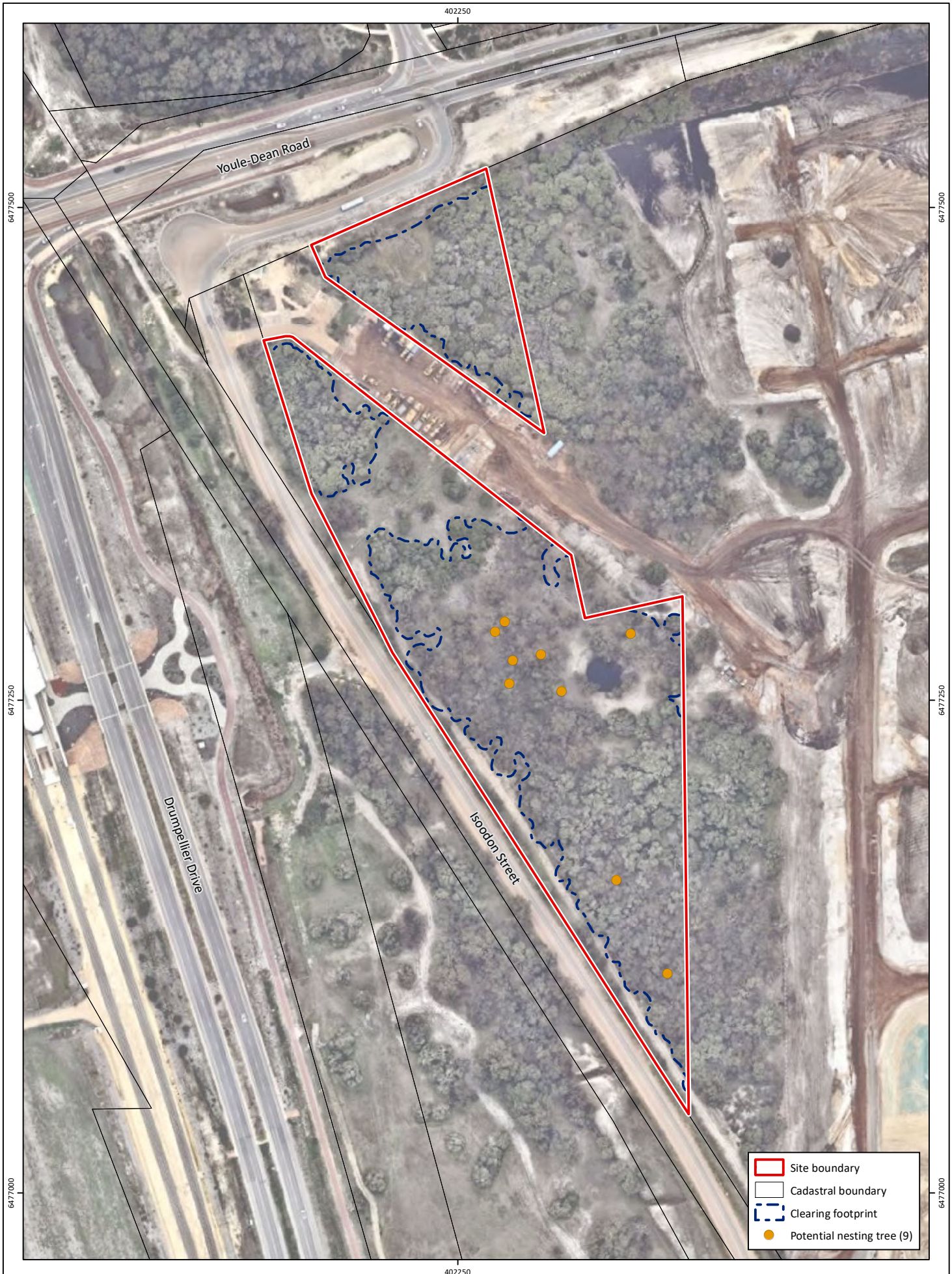


Figure 4: Potential Nesting Tree

Project:	Clearing Permit Application Part Lot 822 Youle-Dean Road, Brabham
Client:	Peet Limited

Plan Number:
EP19-073(63)--F188

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:2,500@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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Figure 5: Tree Species

Project:	Clearing Permit Application Part Lot 822 Youle-Dean Road, Brabham
Client:	Peet Limited

Plan Number:
EP19-073(63)--F189

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:2,500@A4

GDA 1994 MGA Zone 50

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Figure 6: Tree Retention Value

Project: Clearing Permit Application
Part Lot 822 Youle-Dean Road, Brabham

Client: Peet Limited

Plan Number: EP19-073(63)--F190

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:2,500@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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Figure 7: **Black Cockatoo Foraging Habitat**

Project: Clearing Permit Application
Part Lot 822 Youle-Dean Road, Brabham

Client: Peet Limited

Plan Number: EP19-073(63)--F191

Drawn:	KC
Date:	14/09/2026
Checked:	TB
Approved:	TB
Date:	15/09/2026

N

0 30 60
Metres

Scale: 1:2,500@A4

GDA 1994 MGA Zone 50

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Appendix A

EPBC Act 2015/7458 Approval

APPROVAL

Residential Development on Lot 822 Youle-Dean Road, Brabham, Western Australia (EPBC 2015/7458)

This decision is made under sections 130(1) and 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999 (Cth).* Note that section 134(1A) of the **EPBC Act** applies to this approval, which provides in general terms that if the approval holder authorises another person to undertake any part of the action, the approval holder must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such condition.

Details

Person to whom the approval is granted (approval holder)	Housing Authority
ACN or ABN of approval holder	56 167 671 885
Action	To clear native vegetation to develop Lot 822 Youle-Dean Road, Brabham, WA for the purpose of residential development. Subject to the variation accepted by the Minister under section 156B on 25 October 2018.

Approval decision

My decision on whether or not to approve the taking of the action for the purposes of the controlling provision for the action is as follows.

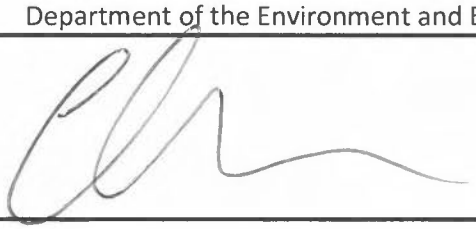
Controlling Provisions

Listed Threatened Species and Communities	
Section 18	Approve
Section 18A	Approve

Period for which the approval has effect

This approval has effect until 31 December 2026.

Decision-maker

Name and position	Chris Videroni Acting Assistant Secretary of Assessments and Post Approval Branch Department of the Environment and Energy
Signature	
Date of decision	14 **December 2018**

Conditions of approval

This approval is subject to the conditions under the EPBC Act as set out in ANNEXURE A.

ANNEXURE A – CONDITIONS OF APPROVAL

Part A – Conditions specific to the action

1. For the protection of **EPBC Act** listed **Black Cockatoos**, the approval holder must not **clear** more than 29.02 ha of **Black Cockatoo habitat** within the **project area**.

2. To mitigate impacts to **Black Cockatoos**, within seven days prior to **clearing** of any area of **Black Cockatoo habitat** during the **peak breeding season**, the approval holder must investigate all potential nesting trees within the area to be **cleared** to determine if there are any hollows that are being utilised by **Black Cockatoos** for nesting. The investigation must be undertaken by a **suitably qualified person**.

    a. If any **Black Cockatoo(s)** is detected utilising any hollow in any tree, the approval holder must:

        i. clearly identify and mark the identified nesting tree; and

        ii. only clear the identified nesting tree, or vegetation within a 10 m radius of the tree, if a **suitably qualified person** has verified that the hollows in the tree are no longer being utilised by **Black Cockatoos**.

3. To mitigate impacts to **Black Cockatoos** and re-establish potential breeding opportunities for **Black Cockatoos** in the vicinity of the **project area**, the approval holder must plant **potential Black Cockatoo breeding habitat trees** within the **revegetation area** (revegetation works).

    The approval holder must adhere to the following:

    a. revegetation works must begin within 12 months of **commencement of the action**

    b. provide the **Department** with evidence of the commencement of the revegetation works within 30 days of their commencement

    c. revegetation works may cease once a **suitably qualified person** has verified that the revegetation works meet the **completion criteria**

    d. provide the **Department** with written evidence, endorsed by the **suitably qualified person**, that the revegetation works meet the **completion criteria**.

4. To offset residual significant impacts to **Black Cockatoos**, the approval holder must:

    a. prior to **commencement of the action**, provide the **Department** with written evidence demonstrating that ownership of the **Mogumber Road offset site** has been transferred to the **WA DBCA**

    b. make a financial contribution to the **WA DBCA** to fully fund the purchase of 145 ha of the **Keating Road offset site**

    c. within six months of **commencement of the action**, or such other time as agreed to by the **Department**, provide the **Department** with written evidence that the financial contribution for the purchase of 145 ha of the **Keating Road offset site** has been made to the **WA DBCA**

    d. within 12 months of **commencement of the action**, provide the **Department** with the **offset attributes** and **shapefiles** of the **Mogumber Road offset site** and 145 ha of the **Keating Road offset site** that compensate for the residual significant impacts of the action.

Part B – Standard administrative conditions

5. The approval holder must notify the **Department** in writing of the date of **commencement of the action** within 10 **business days** after the date of **commencement of the action**.

6. If the **commencement of the action** does not occur within 5 years from the date of this approval, then the approval holder must not **commence the action** without the prior written agreement of the **Minister**.

7. The approval holder must maintain accurate and complete **compliance records**.

8. If the **Department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **Department** within the timeframe specified in the request.

Note: **Compliance records** may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act**, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the **Department**'s website or through the general media.

9. The approval holder must prepare a **compliance report** for each 12 month period following the date of **commencement of the action**, or as otherwise agreed to in writing by the **Minister**. The approval holder must:

   a. publish each **compliance report** on the **website** within 60 **business days** following the relevant 12 month period;

   b. notify the **Department** by email that a **compliance report** has been published on the **website** within five **business days** of the date of publication;

   c. keep all **compliance reports** publicly available on the **website** until this approval expires;

   d. exclude or redact **sensitive ecological data** from **compliance reports** published on the **website**; and

   e. where any **sensitive ecological data** has been excluded from the version published, submit the full **compliance report** to the **Department** within 5 **business days** of publication.

Note: **Compliance reports** may be published on the **Department**'s website.

10. The approval holder must notify the **Department** in writing of any: **incident;** non-compliance with the conditions. The notification must be given as soon as practicable, and no later than two **business days** after becoming aware of the **incident** or non-compliance. The notification must specify:

    a. the condition which is or may be in breach; and

    b. a short description of the **incident** and/or non-compliance.

11. The approval holder must provide to the **Department** the details of any **incident** or non-compliance with the conditions as soon as practicable and no later than 10 **business days** after becoming aware of the **incident** or non-compliance, specifying:

    a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;

    b. the potential impacts of the **incident** or non-compliance; and

    c. the method and timing of any remedial action that will be undertaken by the approval holder.

12. The approval holder must ensure that **independent audits** of compliance with the conditions are conducted as requested in writing by the **Minister**.

13. For each **independent audit**, the approval holder must:
    a. provide the name and qualifications of the independent auditor and the draft audit criteria to the **Department**;
    b. only commence the **independent audit** once the audit criteria have been approved in writing by the **Department**; and
    c. submit an audit report to the **Department** within the timeframe specified in the approved audit criteria.
14. The approval holder must publish the audit report on the **website** within 10 **business days** of receiving the **Department's** approval of the audit report and keep the audit report published on the **website** until the end date of this approval.
15. Within 30 days after the **completion of the action**, the approval holder must notify the **Department** in writing and provide **completion data**.

Part C - Definitions

16. In these conditions, except where contrary intention is expressed, the following definitions are used:
    a. **Black Cockatoo(s)** is the **EPBC Act** listed Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*), Baudin's Black Cockatoo (*Calyptorhynchus baudinii*) and Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*).
    b. **Black Cockatoo habitat** means foraging, breeding, potential breeding and roosting habitat for **Black Cockatoos**, as defined in the *EPBC Act Referral Guidelines for three species of Western Australian black cockatoos: Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*) (Endangered), Baudin's Black Cockatoo (*Calyptorhynchus baudinii*) (Vulnerable) and Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*) (Vulnerable)* (October 2012).
    c. **Clear, cleared or clearing** includes but is not limited to the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation, but does not include measures for weed and pest management.
    d. **Commencement of the action** means the first instance of any specified activity associated with the action including clearance of vegetation and **construction** of any infrastructure. Commencement does not include minor physical disturbance necessary to:
        i. undertake pre-clearance surveys or monitoring programs;
        ii. install signage and /or temporary fencing to prevent unapproved use of the project area;
        iii. protect environmental and property assets from fire, weeds and pests, including erection or **construction** of fencing and signage, and maintenance or use of existing surface access tracks, if agreed in writing by the **Department**.
    f. **Completion criteria** means that the revegetation works will have the following criteria:
        - at least 1000 **potential Black Cockatoo breeding habitat trees** are at least five years old
        - **potential Black Cockatoo breeding habitat trees** are planted at a density of 250 per hectare.

g. **Completion data** means an environmental report and spatial data information clearly detailing how the conditions of this approval have been met, including the date and the actual total **cleared area**. The **Department's** preferred spatial data format is shapefile.

h. **Completion of the action** means the time at which all approved conditions (except this condition) have been fully met.

i. **Compliance records** means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval in the approval holder's possession or that are within the approval holder's power to obtain lawfully;

j. **Compliance reports** means written reports:

   i. providing accurate and complete details of compliance, **incidents**, and non-compliance with the conditions and the **plans**;

   ii. consistent with the **Department's** *Annual Compliance Report Guidelines* (2014); and

   iii. include a shapefile of any clearance of any **protected matters**, or their habitat, undertaken within the relevant 12 month period.

k. **Construction** means any preparatory works required to be undertaken including **clearing** vegetation, the erection of any onsite temporary structures and the use of heavy duty equipment for the purpose of breaking the ground for buildings or infrastructure including any works for the creation of vegetation buffers

l. **Department** means the Australian Government agency responsible for administering the **EPBC Act**.

m. **EPBC Act** means the *Environment Protection and Biodiversity Conservation Act 1999* (Cth).

n. **Incident** means any event which has the potential to, or does, impact on **protected matter(s).**

o. **Independent audit**: means an audit conducted by an independent and **suitably qualified person** as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines* (2015).

p. **Keating Road offset site** means Lot 2061 Keating Road, Avon Valley, Western Australia, as outlined in red and labelled as 'Proposed offset boundary' at Attachment C.

q. **Minister** means the Australian Government Minister administering the **EPBC Act** including any delegate thereof.

r. **Mogumber Road offset site** means the 60.5 ha portion of Lot 106 Mogumber Road, Gingin, Western Australia, as outlined in yellow at Attachment D.

s. **Peak breeding season** for the **Carnaby's Black Cockatoo** is the period between 1 July and 31 December of any year.

t. **Potential Black Cockatoo breeding habitat trees** means *Corymbia calophylla* (Marri).

u. **Project area** means Lot 822 Youle-Dean Road, Brabham, Western Australia, as outlined in red and labelled as 'Lot 822 Youle-Dean Road, Brabham' at Attachment A.

v. **Protected matter** means a matter protected under a controlling provision in Part 3 of the **EPBC Act** for which this approval has effect.

w. **Revegetation area** means the area overlain with green lines and labelled as 'Revegetation area', as shown at Attachment B.

x. **Suitably qualified person** means a person who has professional qualifications, training, skills and/or experience related to the nominated subject matter and can give authoritative independent assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods and/or literature.

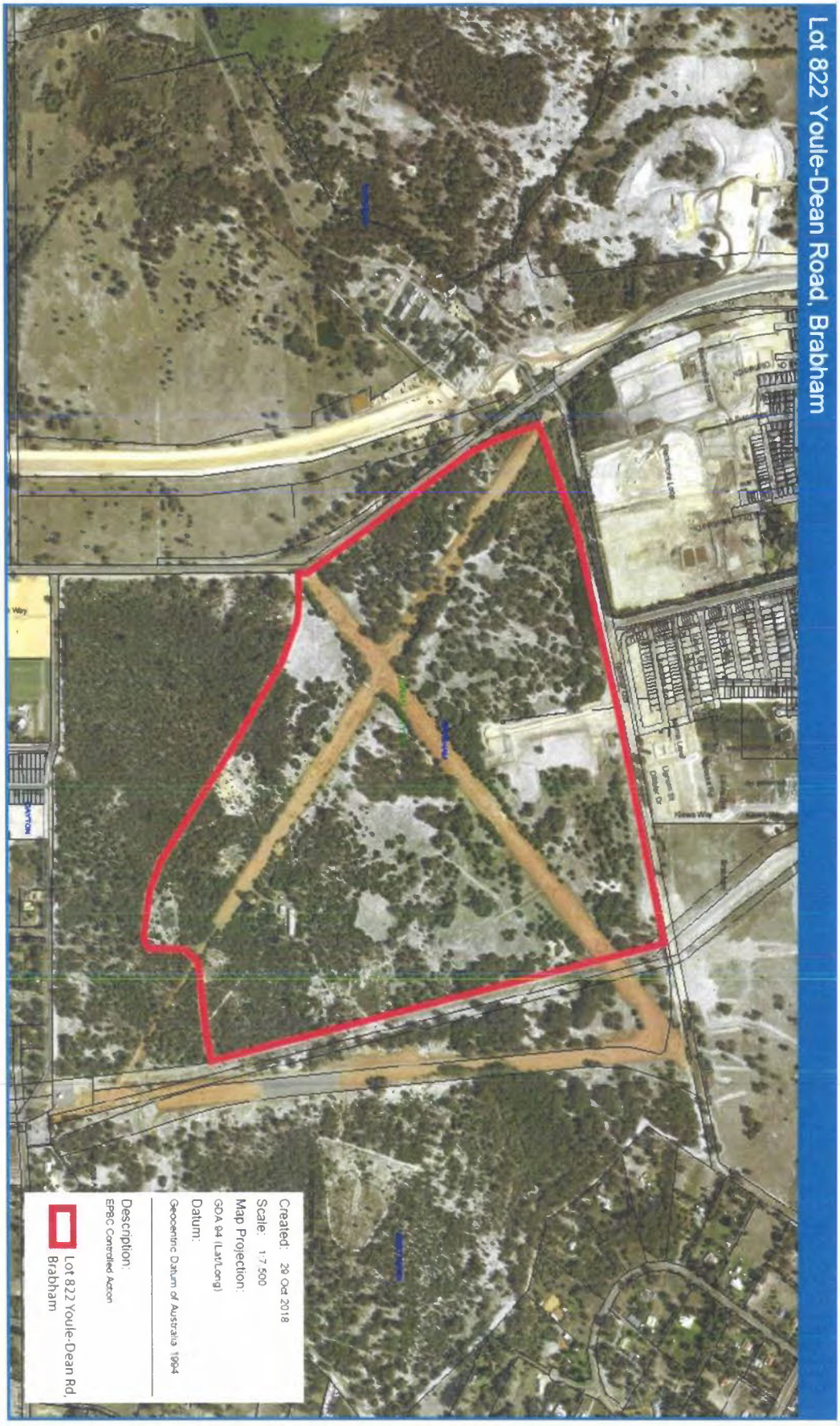
y. **WA DBCA** means the Western Australia Government body responsible for the administration of the *Conservation and Land Management Act 1984* (WA).

z. **Website** means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.

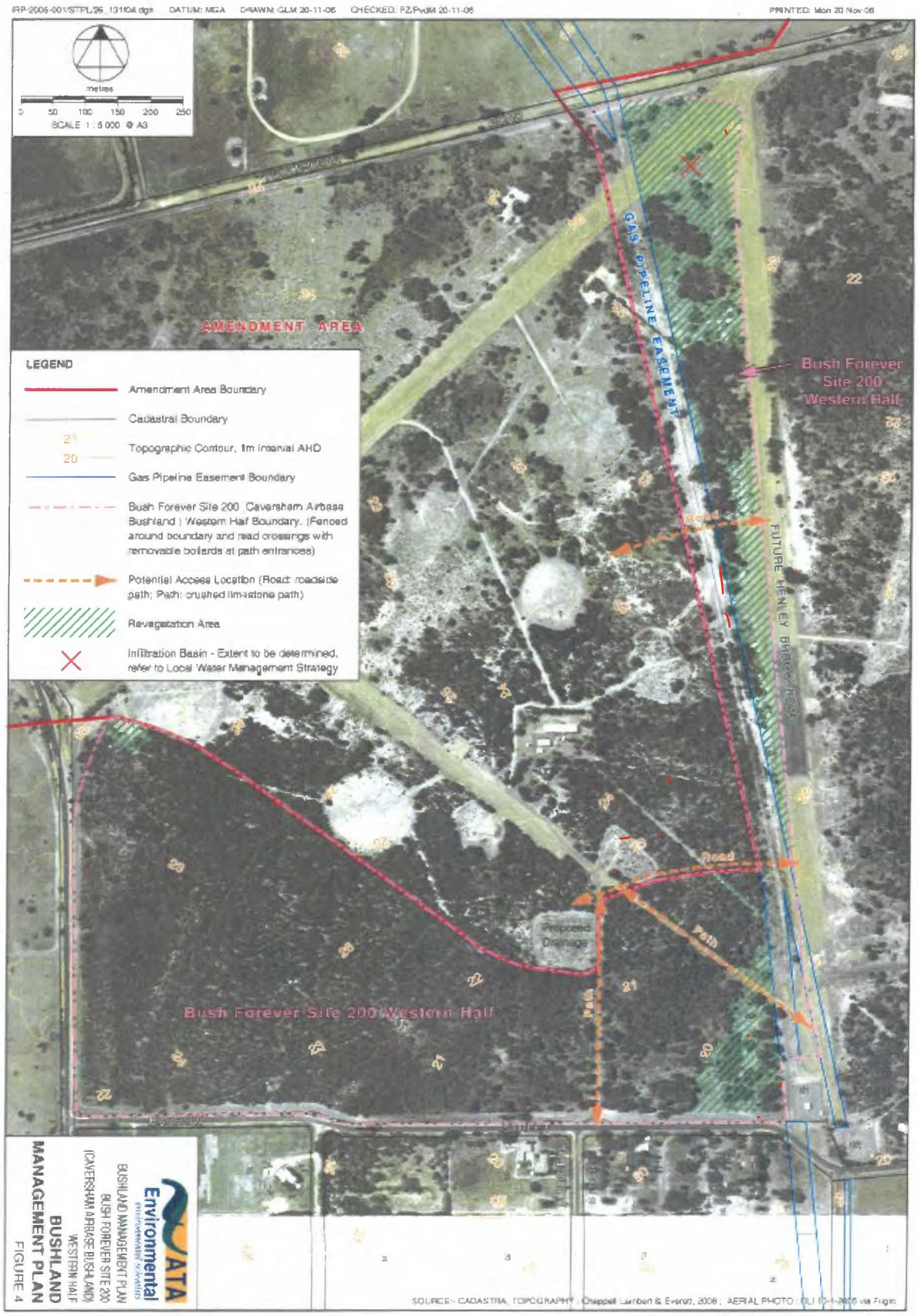
ATTACHMENTS

1. **Attachment A:** Map depicting the **project area**
2. **Attachment B:** Map depicting **Bush Forever Site 200**
3. **Attachment C:** Map depicting the **Mogumber Road offset site**
4. **Attachment D:** Map depicting the **Keating Road offset site**.

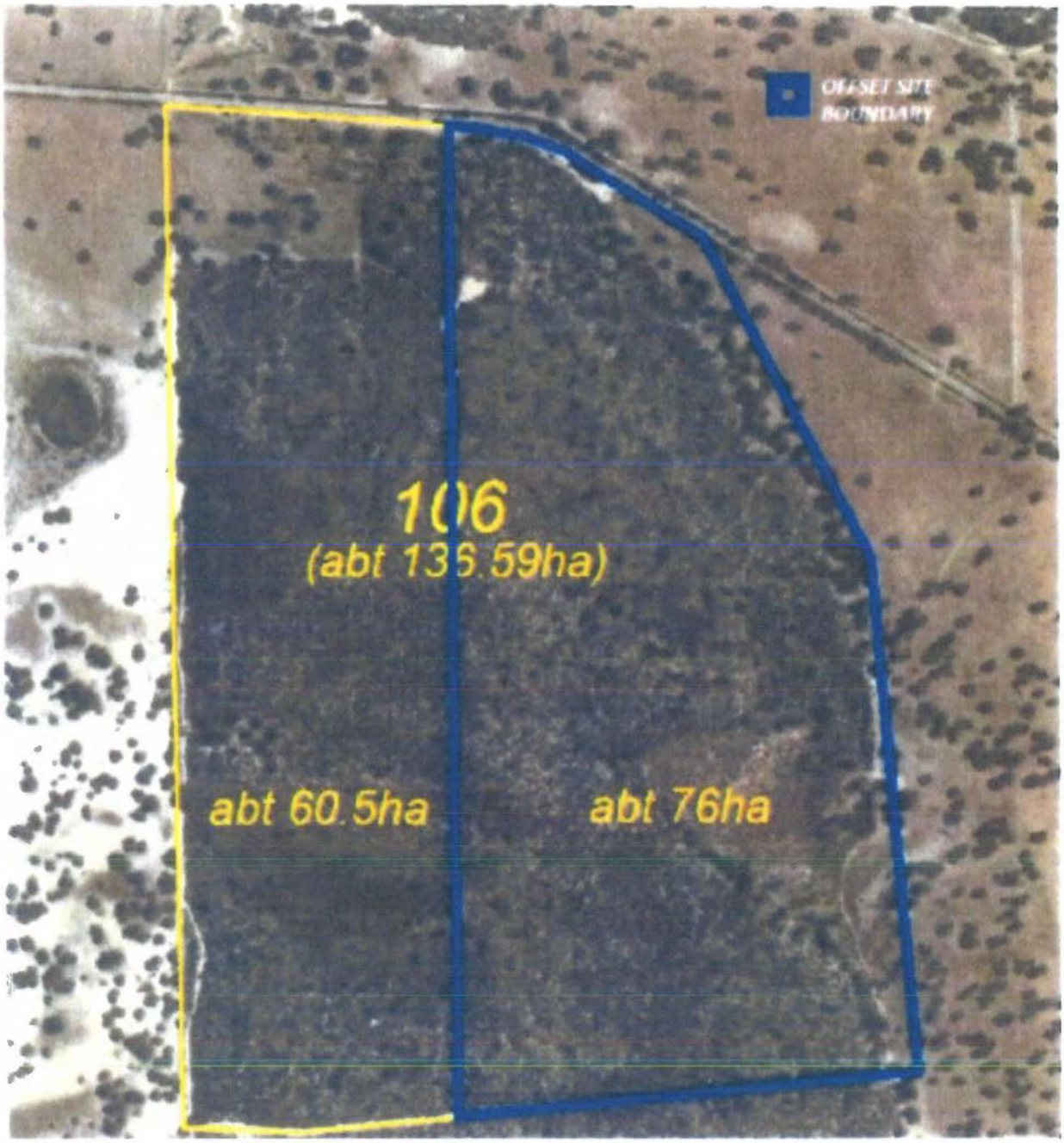
Attachment A



Attachment B



Attachment C



Attachment D



Appendix B

Basic Fauna and Targeted Black Cockatoo Assessment (Emerge, 2023)

Basic Fauna and Targeted Black Cockatoo Assessment

Lot 822 Youle-Dean Road, Brabham

Project No: EP17-131(28)

Prepared for Peet Limited
January 2023



Document Control

Doc name:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Road, Brabham		
Doc no.:	EP21-131(28)--078 NAW		
Version	**Date**	**Author**	**Reviewer**
1	January 2023 Submitted for client	[redacted]	

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Executive Summary

Peet Limited engaged Emerge Associates to conduct a basic fauna and a targeted black cockatoo assessment to provide information on the fauna and black cockatoo values within Lot 822 Youle-Dean Road in Brabham (referred to herein as the 'site').

As part of the assessment a desktop review of relevant background information was completed, and a field survey was undertaken on 27 October 2021, 22 November 2021 and 10, 13 and 14 January 2022. During the field survey opportunistic sightings of fauna were recorded and an assessment was made on the fauna habitat within the site and its suitability to provide habitat for conservation significant fauna. A targeted black cockatoo survey was also undertaken to determine the presence of habitat for threatened black cockatoo species.

Outcomes of the basic fauna survey include the following:

- The highest fauna habitat values are associated with the **woodland** habitat which occurs over 23.97% of the site. Remaining vegetation within the site supports a range of forest, open woodland and shrubland habitats which provide limited value to fauna species of conservation significance and is likely to primarily be used by common and widespread native and non-native fauna with non-specific habitat requirements. The remainder of the site comprises cleared areas (28.67%).
- A total of 27 native fauna species were recorded within the site, including two species of conservation significance, Carnaby's black cockatoo (listed as endangered) and forest red-tailed black cockatoo (listed as vulnerable).
- While not recorded during the field survey, Baudins's black cockatoo (listed as endangered) is likely to occur in the site. Seven other species of conservation significance not recorded during the field survey may possibly occur in the site; Pacific swift, peregrine falcon, quenda, black-striped snake, Swan Coastal Plain shield backed trapdoor spider, graceful sunmoth and Douglas's broad headed bee.

Outcomes of the targeted black cockatoo survey include the following:

- The site occurs within the modelled distribution of Carnaby's black cockatoo, forest red-tailed black cockatoo and Baudin's black cockatoo. Carnaby's black cockatoo and Forest red-tailed black cockatoo were recorded in the site during the field survey and Baudin's black cockatoo is likely to occur.
- The site contains 283 habitat trees of which none contain hollows suitable for use by black cockatoos for breeding. Therefore, the site does currently not provide suitable breeding habitat for black cockatoos.
- No roosts or evidence of roosting by any species of black cockatoo was recorded within the site during the field survey. Tall native and non-native trees within the site represent suitable roosting habitat for species of black cockatoo.
- A total of 28.73 ha of foraging habitat for Carnaby's black cockatoo was mapped within the site of which 28.7 ha (99.9%) comes from native vegetation and 0.03 ha (0.1%) comes from non-native vegetation.
- A total of 28.67 ha of foraging habitat for Baudin's black cockatoo was mapped in the site of which all comes from native vegetation.

- A total of 18.72 ha of foraging habitat for forest red-tailed black cockatoo was mapped in the site of which 18.65 ha (99.63%) comes from native vegetation and 0.07 ha (0.37%) comes from non-native vegetation.
- Additional areas of foraging habitat of similar or higher value occur adjacent to the site and in the wider local area.
- A total of 33.33 ha of black cockatoo habitat occurs in the site.

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Appendices

Appendix A

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Appendix B

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Appendix E

Species List

Appendix F

Black Cockatoo Habitat Tree Data

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Abbreviation Tables

Table A1: Abbreviations – Organisations

Organisations	
EPA	Environmental Protection Authority
DBCA	Department of Biodiversity, Conservation and Attractions
DCCEEW	Department of Climate Change, Energy the Environment and Water
DPaW	Department of Parks and Wildlife (now DBCA)
DAWE	Department of Agriculture, Water and the Environment (now DCCEEW)
WA Museum	Western Australian Museum

Table A2: Abbreviations – General terms

General terms	
CD	Specially Protected - Conservation Dependent
CE	Critically Endangered
EN	Endangered
IBRA	*Interim Biogeographic Regionalisation of Australia*
MI	Migratory
OS	Other Specially Protected
P3	Priority 3
P4	Priority 4
UFI	Unique feature identifier
VU	Vulnerable

Table A3: Abbreviations –Legislation

Legislation	
BAM Act	*Biosecurity and Agriculture Management Act 2007*
EBPC Act	*Environment Protection and Biodiversity Conservation Act 1999*
BC Act	*Biodiversity Conservation Act 2016*

Table A4: Abbreviations – units of measurement

Units of measurement	
DBH	Diameter at breast height
cm	Centimetre
ha	Hectare
km	Kilometre
m AHD	m in relation to the Australian height datum

1 Introduction

1.1 Project background

Emerge Associates (Emerge) were engaged by Peet Limited to characterise the fauna/black cockatoo values within Lot 822 Youle-Dean Road in Brabham (referred to herein as the 'site'). This lot is located approximately 17 kilometres (km) north east of the Perth Central Business District within the City of Swan.

The site is approximately 109 hectares (ha) in size and is bounded by bushland and an old landing strip to the east, Youle-Dean Road to the north, Isoodon Street to the west and native bushland to the south. The location and extent of the site is shown in **Figure 1**.

1.2 Purpose and scope of works

The scope of work was specifically to undertake a terrestrial vertebrate fauna assessment to the standard required of a 'basic' fauna survey and a 'targeted' black cockatoo survey with reference to the *Environmental Protection Authority's* (EPA's) technical guidance (EPA 2020) and the *Environment Protection and Biodiversity Conservation Act* black cockatoo referral guidelines (DAWE 2022b).

As part of this scope of work, the following tasks were undertaken:

- Desktop assessment of relevant background information pertaining to the site and surrounds, including database and literature searches for fauna species.
- A field survey to identify fauna species and habitats within the site, including habitat for species of black cockatoo.
- Compilation of a list of fauna species with potential to occur within the site as identified from the desktop assessment and opportunistically recorded as part of the field survey.
- Identification of potential habitat for conservation significant fauna species and an assessment of likelihood of occurrence.
- Mapping of fauna and black cockatoo habitat.
- Documentation of the desktop assessment, survey methodology and results into a report.

2 Environmental context

2.1 Climate

Climate has a strong influence on the fauna habitat and species present in a region and a site. The south-west of Western Australia experiences a Mediterranean climate of hot dry summers and cool wet winters.

A total of 52 millimetre (mm) of rainfall was recorded during the month prior to the survey (September 2021) from the Whiteman park weather station (no. 9263) which is the closest weather station located approximately 2 km west of the site (BoM 2022). This is higher than the average rainfall of 36.4 mm for the same period and weather station (BoM 2022).

Temperatures recorded in September 2021 ranged from a mean maximum of 21.6°C to a mean minimum of 8.8°C, as recorded by the Perth Airport weather station (no. 9021) which is the closest temperature recording weather station located approximately 13 km south of the site (BoM 2022). This is similar to the average maximum temperature of 20.3°C and average minimum temperature of 8.9°C for the same period and weather station (BoM 2022).

On the days of the survey, temperatures at the Perth Airport weather station ranged from a daily maximum of 33.6°C to a daily minimum of 10.1°C (BoM 2022). Approximately 21 mm of rainfall was recorded on the first day of the survey by the Whiteman Park weather station (BoM 2022). No rainfall was recorded on the remaining days of the survey.

2.2 Geomorphology and soils

Landform and soils influence fauna habitat and species at regional and local scales. The site occurs on the Swan Coastal Plain, which is the geomorphic unit that characterises much of the Perth metropolitan area. The Swan Coastal Plain is approximately 500 km long and 20 to 30 km wide and is roughly bound by the Indian Ocean to the west and the Darling Scarp to the east. Broadly the Swan Coastal Plain consists of two sedimentary belts of different origin. Its eastern side comprises the Pinjarra Plain which formed from the deposition of alluvial material washed down from the Darling Scarp, while its western side comprises three dune systems that run roughly parallel to the Indian Ocean coastline (Seddon 2004). These dune systems, referred to as Quindalup, Spearwood and Bassendean associations, represent a succession of coastal deposition that has occurred since the late Quaternary period (approximately two million years ago) (Kendrick *et al.* 1991) and, as a result, they contain soils at different stages of leaching and formation.

Examination of physiographic region mapping by (Gozzard 2011) places the site in the Bassendean Dunes which was later confirmed during the field survey. The Bassendean Dunes typically comprises of old, low hills of quartz sand with numerous interdunal swamps and lakes (Beard 1990). The physiographic regions mapped within the site are shown in **Figure 2**.

The site is not known to contain any restricted landforms or unique geological features.

2.3 Topography

The elevation of the site ranges from 22 m in relation to the Australian height datum (mAHD) on the south eastern side of the site to 26 mAHD on the south western side of the site (DoW 2008) (**Figure 2**).

2.4 Hydrology and wetlands

Wetlands are areas of seasonally, intermittently or permanently waterlogged land such as poorly drained soils, ponds, billabongs, lakes, swamps, tidal flats, estuaries, rivers and their tributaries (Wetlands Advisory Committee 1977). Many wetlands provide important fauna habitat and support high levels of fauna biodiversity and endemism.

Wetlands of national or international significance may be afforded special protection under Commonwealth or international agreements. The following lists of important wetlands were checked as part of this assessment:

- *Ramsar List of Wetlands of International Importance* (DBCA 2017)
- *A Directory of Important Wetlands in Australia* (DBCA 2018*)*.

No Ramsar wetlands are located within or near the site. The RAAF Caversham important wetland (directory of important wetland (DIW) ID 120) occurs within and adjacent to the site.

Examination of the Department of Water and Environmental Regulation (DWER) hydrography dataset (DWER 2018) shows the following six wetland or water related features occur within the site:

- Four earth dams
- Two minor drains

The Department of Biodiversity, Conservation and Attractions (DBCA) has developed the *Geomorphic Wetlands of the Swan Coastal Plain* dataset (DBCA 2021). This dataset maps geomorphic wetland features and classifies them based on their landform shape and water permanence.

A review of the *Geomorphic Wetlands, Swan Coastal Plain* dataset indicated that two sumpland wetland features (unique feature identifiers (UFI) 8807 and 8814) occur within the northern and central portions of the site (DBCA 2021). The locations of the geomorphic wetlands in the site are shown in Error! Reference source not found..

2.5 Regional vegetation

Vegetation types and resulting fauna habitats strongly influence the diversity and composition of fauna taxa present within an area. Native vegetation is described and mapped at different scales in order to illustrate patterns in its distribution. At a continental scale the *Interim Biogeographic Regionalisation of Australia* (IBRA) divides the Swan Coastal Plain into two floristic subregions (Environment Australia 2000).

The site is contained within the 'SWA02' or Perth subregion, which is characterised as mainly containing *Banksia* low woodland on leached sands with *Melaleuca* swamps where ill-drained; and woodland of *Eucalyptus gomphocephala* (tuart), *E. marginata* (jarrah) and *Corymbia calophylla*

(marri) on less leached soils (Beard 1990). This subregion is recognised as a biodiversity hotspot and contains a wide variety of endemic fauna species.

Variations in native vegetation can be further classified based on regional vegetation mapping.

Heddle *et al.* (1980) mapping shows the site as comprising the 'Southern River complex', which is described as an open woodland of *Corymbia calophylla*, *Eucalyptus marginata* and *Banksia* spp. with fringing woodland of *Eucalyptus rudis*, *Melaleuca rhaphiophylla* along creek beds.

Review of historical images available from 1953 (WALIA 2022) onwards show that parts of the site were cleared of native vegetation prior to 1953 for use as an airstrip.

2.6 Significant fauna

2.6.1 Threatened fauna

Certain fauna taxa that are considered to be rare or under threat warrant special protection under Commonwealth and/or State legislation. At a Commonwealth level, fauna taxa may be listed as 'threatened' under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Any action likely to have a significant impact on a taxon listed under the EPBC Act requires Ministerial approval.

In Western Australia fauna species may also be classed as 'threatened' under the *Biodiversity Conservation Act 2016* (BC Act). It is an offence to 'take' or 'disturb' threatened fauna without Ministerial approval.

Threatened fauna species listed under the EPBC Act and/or BC Act are assigned a conservation status according to attributes such as population size and geographic distribution. Further information on threatened species and their categories is provided in **Appendix A**.

2.6.1.1 Black cockatoos

Three threatened species of black cockatoo occur in the south-west of WA (referred to herein collectively as 'black cockatoos'):

- *Zanda*[1] *latirostris* (Carnaby's black cockatoo) which is listed as 'endangered' under the EPBC Act and the BC Act.
- *Zanda*[2] *baudinii* (Baudin's black cockatoo) which is listed as 'endangered' under the EPBC Act and the BC Act.
- *Calyptorhynchus banksii naso* (forest red-tailed black cockatoo) which is listed as 'vulnerable' under the EPBC Act and the BC Act.

Black cockatoo habitat is conventionally separated into breeding, roosting and foraging categories:

- Black cockatoos nest in hollows that form in trees which are usually more than ~200 years old. 'Breeding habitat' comprises 'habitat trees' which are trees of a species known to support black

[1] Previously *Calyptorhynchus*
[2] Previously *Calyptorhynchus*

cockatoo breeding and which either have a suitably large enough nest hollow or have a large enough diameter at breast height (DBH) to indicate that a suitable nest hollow could develop in time (DAWE 2022b). A minimum DBH for a habitat tree is defined as ≥50 centimetres (cm) for most tree species used by black cockatoos and ≥30 cm for *Eucalyptus wandoo* (wandoo) and *Eucalyptus salmonophloia* (salmon gum) (DAWE 2022b). Breeding habitat is also generally expected to be located within 6 km of food and water resources (DPaW 2013).

- Roosting refers to black cockatoos congregating in a tree or group of trees to rest overnight. 'Roosting habitat' consists of groups or individual tall trees used for roosting. Roosts generally comprise the tallest trees in an area and can include native and non-native trees (DAWE 2022b). They are often located within 6 km of water and food resources, with additional foraging ranges within 12 km (Shah 2006; Le Roux 2017; DAWE 2022b). The use of a particular roost may vary depending on availability of food and water resources.
- Black cockatoos feed on the fruit and seeds of a range of native and non-native plant species. 'Foraging habitat' is vegetation that contains plant species known to be foraged on by black cockatoos.

Each black cockatoo species has a defined breeding season, with Baudin's black cockatoo breeding from August/September to February/March and Carnaby's black cockatoo breeding from July/August to January/February (DAWE 2022b). Forest red-tailed black cockatoo breeds in October/November but may breed in March/April if there is good autumn rainfall (DAWE 2022b). There is also evidence that forest red-tail black cockatoos breed throughout the year, with peaks in April – June and August – October (Johnstone *et al.* 2013).

2.6.2 Priority fauna

Fauna species that do not currently meet the criteria for listing as threatened but are potentially rare or threatened may be added to the DBCA *Priority Fauna List*. These species are classified into 'priority' levels based on threat. Whilst priority species are not under direct statutory protection, they are considered during State approval processes. Further information on priority species and their categories is provided in **Appendix A**.

2.6.3 Migratory fauna

Some fauna species that migrate to Australia and its external territories or pass though or over Australian waters during their annual migrations are protected under Commonwealth and State legislation. At a Commonwealth level, migratory fauna taxa may be listed as 'migratory' under *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Any action likely to have a significant impact on a taxon listed under the EPBC Act requires Ministerial approval. Further information on migratory species is provided in **Appendix A**.

2.6.4 Specially protected fauna

In Western Australia, fauna species that are of special conservation interest, including migratory species and cetaceans, species subject to international agreement or species otherwise in need of special protection may be listed as 'specially protected' under the BC Act. Further information on specially protected species and their categories is provided in **Appendix A**.

2.7 Pest fauna

The term 'pest fauna' can refer to any animal that requires some form of action to reduce its effect on the economy, the environment, human health and amenity. Pest fauna species are generally not native but some Australian or Western Australian fauna may also be considered pests.

A particularly invasive or detrimental pest species may be listed as a 'declared pest' pursuant to Western Australia's *Biosecurity and Agriculture Management Act 2007* (BAM Act), indicating that it warrants special management to limit its spread. Current pest status and control categories for Western Australia are provided in the *Western Australian Organism List* (DPIRD 2022). Further information on categories of declared pests is provided in **Appendix A**.

2.8 Bush Forever

The Government of Western Australia's Bush Forever policy is a strategic plan for conserving regionally significant bushland within the Swan Coastal Plain portion of the Perth Metropolitan Region. The objective of *Bush Forever* is to protect comprehensive representations of all original ecological communities by targeting a minimum of 10% of each vegetation complex for protection (Government of WA 2000). *Bush Forever* sites are representative of regional ecosystems and habitat and have a key role in the conservation of Perth's biodiversity.

No *Bush Forever* sites occur within the site. Bush Forever site no. 140 (Caversham Airfield Bushland) lies adjacent to the southern and eastern site boundary. The locations of this Bush Forever site and additional Bush Forever sites in the wider area of the site are shown in **Figure 3**.

2.9 Ecological linkages

Ecological linkages are linear landscape elements that allow the movement of fauna, flora and genetic material between areas of remnant habitat. This exchange of genetic material between vegetation remnants improves the viability of those remnants by allowing greater access to breeding partners and food sources, refuge from disturbances such as fire and maintenance of genetic diversity of plant communities and populations. Ecological linkages are ideally continuous or near-continuous as the more fractured a linkage is, the less ease flora and fauna have in moving within the corridor (Alan Tingay and Associates 1998).

The Perth Biodiversity Project, supported by the Western Australia Local Government Association (WALGA), have identified and mapped regional ecological linkages within the Perth Metropolitan Region (WALGA and PBP 2004).

Biodiversity linkage no. 32 intersects the site and extends beyond the site in an east-west direction. The locations of this linkage and additional linkages in the wider area of the site are shown in **Figure 3**.

2.10 Previous surveys

ATA Environmental previously completed a Carnaby's cockatoo assessment within the site in January 2007. Suitable foraging habitat was found within the site. No hollows suitable for black cockatoos were reported (ATA Environmental 2007). This assessment was undertaken prior to updated referral guidelines relating to black cockatoos.

PGV Environmental previously completed a black cockatoo habitat assessment within the site in May 2014. The assessment identified 38.21 ha of suitable habitat and 163 habitat trees. No hollows suitable for black cockatoos or roosting evidence was reported (PGV Environmental 2014).

3 Methods

3.1 Desktop assessment

3.1.1 Basic fauna

A search was conducted for fauna species that have been recorded within a 10 km radius of the site using the *Protected Matters Search Tool* (DAWE 2022a), *NatureMap* (DBCA 2022), DBCA's conservation significant fauna database (reference no. FAUNA#6949) and literature references.

3.1.2 Black cockatoo

A search was conducted for records of black cockatoos and potential black cockatoo habitat mapping occurring within 12 km of the site using a range of publicly available regional studies and datasets. Detailed information on each dataset considered as part of the desktop review is provided in **Appendix A**.

3.2 Field survey

Two to four ecologists from Emerge visited the site on the 27 October 2021, 22 November 2021 and 10, 13 and 14 January 2022 during the day to conduct the basic fauna survey and targeted black cockatoo field survey. The surveys were conducted from approximately 9:00 am until 4:30 pm on each day.

The weather conditions prior to and during the survey were hot and dry (refer to **Section 2.1** for recorded weather conditions).

3.2.1 Basic fauna

Transects were traversed across the site, during the day, and the characteristics of fauna habitat and presence of fauna species was recorded. Microhabitats such as logs, rocks and leaf litter were investigated and evidence of species presence such as tracks, scats, skeletal remains, foraging evidence or calls was also noted.

An opportunistic fauna species list was compiled and fauna habitat values were described, with particular reference to conservation significant fauna species with potential to occur within the site.

3.2.2 Targeted black cockatoo

Transects were traversed across the site and the presence of potential black cockatoo breeding, night roosting and foraging habitat was recorded. If observed, the presence of black cockatoos within or near the site was noted. Active searches for evidence of breeding, roosting and foraging activity such as chew marks, branch clippings, droppings, moulted feathers and chewed marri or banksia fruit were conducted.

3.2.2.1 Breeding habitat

A 'habitat tree' was defined as a native eucalypt that is typically known to support black cockatoo breeding such as marri, jarrah, blackbutt, tuart, wandoo, salmon gum or to a lesser extent flooded gum, with a DBH ≥50 cm or DBH ≥30 cm for wandoo or salmon gum. As any tree that has a suitable hollow may provide breeding habitat for black cockatoos, other tree species were also considered to be habitat trees if they contained a suitable hollow.

To be suitable for use as breeding habitat by black cockatoos it was considered a hollow must:

- have an entrance opening of at least 10 cm but preferably 20-30 cm (Saunders *et al.* 1982; Groom 2010; Johnstone *et al.* 2013)
- be located at least 3 m from the ground (Saunders 1979b; Johnstone and Storr 1998; Groom 2010; Saunders 2014)
- be located in a trunk or branch that is generally large enough to contain a hollow that has a floor diameter of at least 40 cm and depth of 50-200 cm such that it could house an adult black cockatoo and nestlings (Saunders 1979a; Johnstone and Storr 1998; Saunders 2014; DPaW 2015)
- have vertical or near vertical orientation (Johnstone and Kirkby 2008; Johnstone *et al.* 2013).

Occasionally, native eucalypts were encountered that met DBH requirements but did not contain a trunk/branch of a sufficient size to support a hollow suitable for use by black cockatoos. For example, the tree may have been less than 3 m tall or had a trunk that forked between 1.3 m and 3 m in height and after the fork no limbs had a diameter of ≥50 cm or ≥30 cm for wandoo or salmon gum. These trees were not recorded as habitat trees as the likelihood they would form a suitable hollow was low.

Habitat trees were individually identified and the attributes outlined in **Table 1** were recorded for each tree.

Table 1: Attributes recorded for each habitat tree in the site

Attribute	Description
Image	Trees were individually photographed
GPS location	The location was recorded using a handheld GPS unit
Tree species	Species and common name were identified
Diameter at breast height (DBH) (cm)	DBH was measured at breast height (1.3 m) using a diameter tape
Hollows potentially suitable for breeding by a black cockatoo	Number of hollows potentially suitable for breeding by a black cockatoo recorded (assessed from ground level only)

Hollows that appeared potentially suitable for use by a black cockatoo from the ground were further inspected using a drone and/or a pole-mounted camera. During the hollow inspection the internal dimensions of the hollow were confirmed if possible and an assessment was made for signs of use such as chew marks around the hollow entrance, nesting material, eggs, feathers or the presence of birds within the hollow.

Each habitat tree was assigned to a category based on federal guidelines (DAWE 2022b) listed in **Table 2**.

Table 2: Habitat tree categories

Category	Specifications
Known nesting tree	Trees (live or dead but still standing) which contains a hollow where black cockatoo breeding has been recorded or which demonstrates evidence of breeding (i.e. showing evidence of use through scratches, chew marks or feathers).
Suitable nesting tree	Trees with suitable nesting hollows present, although no evidence of use. Note that any species of tree may develop suitable hollows for breeding. Hollow confirmed by internal hollow inspection^.
Potential nesting tree	Trees that have a suitable DBH to develop a nest hollow, but do not currently have hollows. Trees suitable to develop a nest hollow in the future are 300-500 mm DBH. Note that many species of eucalypt may develop suitable hollows for breeding.

^Hollow determined to be suitable for use as breeding habitat by black cockatoos as listed above in **Section 3.2.2.1**

3.2.2.2 Roosting habitat

The presence of active or historical roosts was determined through evidence of roosting activity, such as branch clippings, droppings or moulted feathers.

If present, groups of tall native and non-native trees were assumed to provide roosting habitat.

3.2.2.3 Foraging habitat

Foraging habitat was identified by assessing vegetation in the site for plant species known to provide food for black cockatoos (Davies 1966; Saunders 1980; Johnstone and Storr 1998; Johnstone and Kirkby 1999; Groom 2011; Johnstone *et al.* 2011; DAWE 2022b). A list of plant species classified as primary or secondary food plants is provided as **Appendix C**.

Foraging habitat was classified as either 'native' or 'non-native'. Foraging habitat was then graded using the DCCEEW foraging quality scoring method (DAWE 2022b).

As it is not always possible to separate out food plants from non-food plants, mapped foraging habitat may also include vegetation comprising non-food plants. The proportion of non-food plants in mapped foraging habitat was minimised as far as practicable.

Evidence of black cockatoo foraging, such as chewed fruits, was searched for within the site and allocated to a species where possible.

3.3 Data analysis

3.3.1 Desktop assessment

A total number of species that occur or potentially occur within the desktop assessment search area was calculated by adding the total count of non-conservation significant species provided by *NatureMap* to the combined number of conservation significant species provided by *NatureMap* and *Protected Matters Search Tool*. The habitat requirements of conservation significant vertebrate fauna were specifically reviewed to verify they did in fact have potential to occur in the site (that is marine mammals and fish were omitted).

3.3.2 Fauna habitat

Fauna habitats were described according to the dominant flora species and vegetation type present, as determined from observations made during the field survey and information provided in the '*Reconnaissance Flora and Vegetation Assessment*' (Emerge Associates 2022).

The identified fauna habitats were mapped on aerial photography with the boundaries interpreted from aerial photography, (Emerge Associates 2022) plant communities and notes taken in the field.

3.3.3 Likelihood of occurrence

Information on habitat preferences and distribution of conservation significant fauna species with potential occur within the site or wider area was reviewed and assessed against the general site conditions and fauna habitat types recorded during the field survey.

Based on the results of the desktop assessment and information recorded during the field survey, an assessment of the likelihood of occurrence of conservation significant fauna within the site was undertaken using the categories outlined in **Table 3**.

Table 3: Likelihood of occurrence assessment categories and definitions

Likelihood of occurrence	Definition
Recorded	The species was recorded during the current field survey or during previous field surveys.
Likely	The site contains suitable habitat for the species and it is likely the species may occur based on presence of a recent historical record within or close to the site.
Possible	The site contains habitat of at least marginal quality and/or extent for the species and the site is located within the known distribution range of the species which is supported by recent literature records from near the site.
Unlikely	The site contains no or marginal habitat for the species and/or no recent literature records occur near the site.

3.3.4 Black cockatoo habitat

3.3.4.1 Habitat trees

Habitat trees were classified according to the scheme outlined in **Table 2** and mapped on aerial imagery. A complete summary of the recorded attributes of habitat trees was compiled in a tabular format.

3.3.4.2 Foraging habitat value

Foraging habitat was described according to the dominant flora species or vegetation type present and mapped using boundaries interpreted from aerial photography and notes taken in the field. The foraging value of each patch of foraging habitat was attributed separately for each species of black cockatoo likely to occur in the site.

3.3.4.3 Total habitat value

Total area of black cockatoo habitat was calculated by mapping canopy extent of black cockatoo breeding and roosting trees, then combining with foraging habitat.

3.4 Nomenclature and sources of information

Taxonomy and nomenclature of scientific and common names for mammals, reptiles and amphibians follow *the Western Australian Museum* (WAM) *Checklist of the Terrestrial Vertebrate Fauna of Western Australia* (WAM 2021). For birds taxonomy and nomenclature of scientific and common names follows the Australian Faunal Directory (AFD) (DoEE 2021). Where common names were not provided by the WAM or the AFD, these have been derived from other sources as noted.

Literature listed in **Appendix A** represent the main publications used to identify fauna species and habitats within the site.

3.5 Survey limitations

It is important to note the specific constraints imposed on surveys and the degree to which these may have limited survey outcomes. An evaluation of the survey methodology against standard constraints outlined in the EPA's document *Technical Guidance – Terrestrial vertebrate fauna surveys for environmental impact assessment* (EPA 2020) is provided in **Table 4**.

Table 4: Evaluation of survey methodology against standard constraints outlined in the EPA's Technical Guidance – Terrestrial vertebrate fauna surveys for environmental impact assessment (EPA 2020)

Constraint	Degree of limitation	Details
Level of survey	No limitation	A basic survey (desktop study and field survey) in combination with a targeted black cockatoo survey was undertaken. The level of survey and survey effort are considered adequate to assess the fauna and black cockatoo habitat values within the site.
Scope	No limitation	The survey focused on vertebrate fauna and habitat values, with particular focus on black cockatoos and other conservation significant taxa with potential to occur within the site.
Proportion of fauna identified, recorded and/or collected.	No limitation	All observed vertebrate fauna were identified.
Sources of information e.g. previously available information	No limitation	Adequate information was available from database searches, previous surveys and literature references.
The proportion of the task achieved.	No limitation	The task was achieved in its entirety.
Experience level of personnel	No limitation	This fauna and black cockatoo assessment was undertaken by a qualified zoologist with over three years of zoological experience in Western Australia and four environmental consultants with three to seven years of environmental experience. Technical review was undertaken by a senior environmental consultant with over 11 years' experience in environmental science in Western Australia.
Suitability of timing, weather and season	No limitation	Survey timing is not considered to be of great importance for basic fauna assessments but the weather conditions during the survey were ideal for detecting fauna species. The survey was undertaken during the black cockatoo peak breeding season to maximise the chance of detecting breeding behaviour. However, many black cockatoo individuals leave the Swan Coastal Plain (SCP) during this

Constraint	Degree of limitation	Details
		time and migrate to breeding areas and as such the detectability of roosting activity was reduced.
Completeness	No limitation	The desktop assessment, field survey and targeted black cockatoo components of the survey were completed comprehensively.
Spatial coverage and access	No limitation	Site coverage was comprehensive (track logged).
	No limitation	All parts of the site could be accessed as required.
Survey intensity	No limitation	The intensity of the survey was adequate given the size of the site.
Influence of disturbance	No limitation	The site is modified due to historical disturbance. However, no recent disturbance was noted that may have affected outcomes of the survey.
Adequacy of resources	No limitation	All resources required to perform the survey were available. The guidance currently available from Commonwealth and State agencies on the assessment of black cockatoo habitat is limited and relies heavily on technical experts preparing their own methodology. This assessment applies an internally developed methodology that is considered to provide a systematic and balanced characterisation of black cockatoo habitat.
Compliance with EPA (2020) guidance	Minor limitation	The EPA guidance requires that a full list of all fauna species with potential to occur within the site is compiled. As part of this assessment a comprehensive list of fauna species of conservation significance was compiled. Non-conservation taxa with potential to occur within the site were not compiled into a list but are provided as raw data in **Appendix B**. Given that all species with potential to occur within the site are still identified within the relevant appendices this is not considered to affect the outcomes of this assessment.

4 Results

4.1 General site conditions

The site was previously used as an airport during the 1940s and later converted to a racetrack with the track itself running adjacent to the eastern site boundary. Since 1969, the site has been used as a radio communication facility and also by local car clubs.

The site is mostly flat with some areas susceptible to winter inundation. While native vegetation occurs in patches within the site, it has experienced a large degree of human disturbance due to its various uses over the years. In addition to the former runways, multiple portions of vegetation were cleared between 1985 and 1989 for unknown reasons particularly towards the south and east of the site. Illegal dumping has also occurred over much of the area.

4.2 Fauna habitat

Six broad fauna habitats were identified within the site, as listed in in **Table 5**.

A description and the area of each habitat is provided in **Table 5** and representative photographs of each are provided in **Plate 1** to **Plate 6**. The location of each habitat is shown on **Figure 4**.

Table 5: Fauna habitats identified within the site

Fauna habitat	Description	Area (ha)
Closed forest	Low closed forest of *Melaleuca* spp. with some areas prone to inundation (**Plate 1**).	7.43
Open forest	Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sparse forbland dominated by weeds (**Plate 2**).	12.79
Open woodland	Open woodland of *Corymbia calophylla* and *Melaleuca preissiana* over forbland dominated by weeds (**Plate 3**).	28.15
Woodland	Low open *Banksia* woodland over tall to closed shrubland (**Plate 4**).	26.30
Shrubland	Low shrubland over forbland (**Plate 5**).	3.61
Cleared	Heavily disturbed areas comprising bare ground and weeds with occasional native trees (**Plate 6**).	31.46



Plate 1: Closed forest habitat



Plate 2: Open forest habitat



Plate 3: Open woodland habitat



Plate 4: Woodland habitat

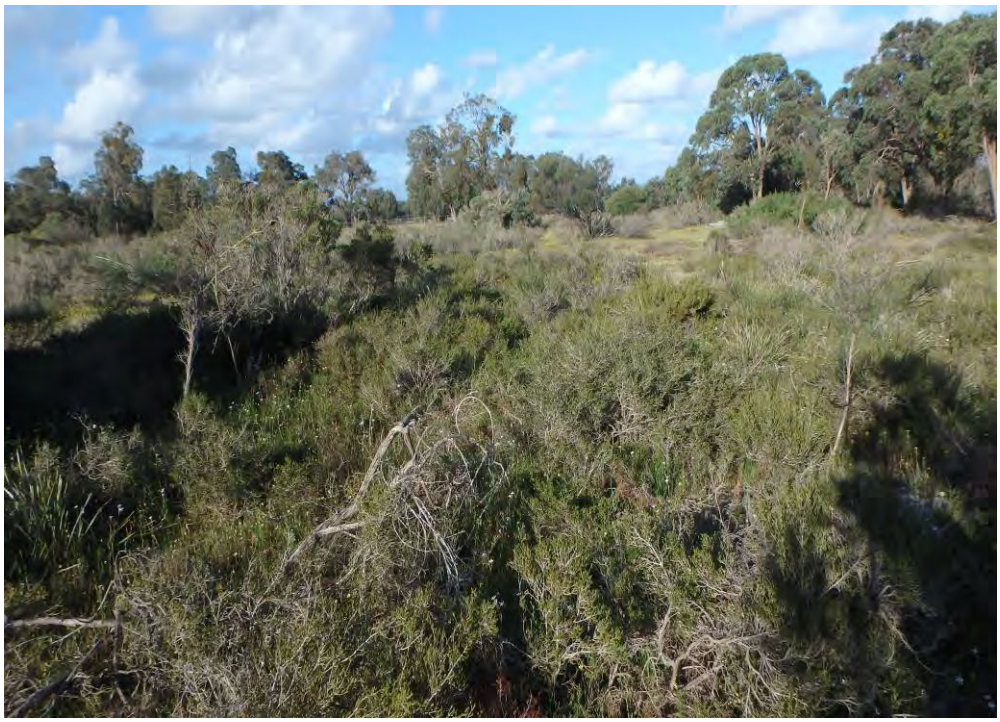


Plate 5: Shrubland habitat



Plate 6: Cleared habitat

4.3 Fauna

4.3.1 Desktop assessment

A total of 516 fauna species were identified from database searches as occurring or potentially occurring within 10 km of the site[3] as listed in **Appendix B.**

Of these species, 66 are conservation significant, including 31 threatened, 14 priority, 30 migratory fauna and three other specially protected species as listed in **Appendix D**.

4.3.2 Species inventory

A total of 27 native and one introduced fauna species, including two fauna species of conservation significance (Carnaby's black cockatoo and forest red-tailed black cockatoo), were directly or indirectly (from foraging evidence) recorded during the field survey.

A complete species list is provided in **Appendix E**.

4.3.3 Conservation significant fauna

Two conservation significant fauna species were recorded within the site during the field survey: Carnaby's black cockatoo and forest red-tailed black cockatoo. Evidence of foraging by both species in the form of chewed marri, banksia and jarrah fruit was recorded in multiple locations in the site.

Additionally, eight fauna species of conservation significance were considered to possibly occur in the site based on habitat requirements, species distribution and site conditions, as shown in **Table 6**.

The remainder of the conservation significant fauna species identified in the desktop assessment (58 species) are considered unlikely to occur in the site due to lack of suitable habitat or because the site lies outside of the species known distribution. Fauna species classed as unlikely to occur are listed in **Appendix D**.

Table 6: Summary of conservation significant fauna species recorded or deemed possible or likely to occur within the site

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Birds					
Apus pacificus	Pacific swift	MI	MI	Aerial, migratory species that is most often seen over inland plains and sometimes above open areas, foothills or in coastal areas. Sometimes occurs over settled areas, including towns, urban areas and cities (Johnstone and Storr 1998).	**Possible**: May opportunistically occur in or fly over the site on commute but only for short periods of time.

[3] Includes native and non-native species. Excludes marine fish and mammal species.

Table 6: Summary of conservation significant fauna species recorded or deemed possible or likely to occur within the site (continued)

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	VU	VU	*Eucalypt* and *Corymbia* forests, often in hilly interior. More recently also observed in more open agricultural and suburban areas including Perth metropolitan area. Attracted to seeding *Corymbia calophylla*, *Eucalyptus marginata*, introduced *Melia azedarach* and *Eucalyptus* spp. trees (Johnstone and Storr 1998).	**Recorded**: Suitable roosting and foraging habitat present and potential breeding habitat.
Falco peregrinus	Peregrine falcon	MI	MI	Mainly found around cliffs along coasts, rivers, ranges and around wooded watercourses and lakes (Johnstone and Storr 1998).	**Possible**: May opportunistically occur in or fly over the site on commute or while searching for prey but only for short periods of time.
Zanda baudinii	Baudin's black cockatoo	EN	EN	Mainly eucalypt forests. Attracted to seeding Corymbia calophylla, Banksia spp., Hakea spp., and to fruiting apples and pears (Johnstone and Storr 1998).	**Possible**: Suitable roosting and foraging habitat present. Site is located at the north-western limits of the species range.
Zanda latirostris	Carnaby's black cockatoo	EN	EN	Mainly proteaceous scrubs and heaths and adjacent eucalypt woodlands and forests; also plantations of *Pinus* spp. Attracted to seeding *Banksia* spp., *Dryandra* spp., *Hakea* spp., *Eucalyptus* spp., *Corymbia calophylla*, *Grevillea* spp., and *Allocasuarina* spp. (Johnstone and Storr 1998).	**Recorded**: Suitable roosting and foraging habitat present and potential breeding habitat.
Invertebrate					
Hesperocolletes douglasi	Douglas's broad-headed bee	CR	CR	Banksia woodland vegetation (Pille Arnold 2019).	**Possible** Suitable habitat (banksia woodland) present within the site.
Synemon gratiosa	Graceful sunmoth	P4	-	Coastal heathland on Quindalup dunes where it is restricted to secondary sand dunes due to the abundance of the preferred host plant *Lomandra maritima*. Banksia woodland on Spearwood and Bassendean dunes, where the second known host plant *L. hermaphrodita* is widespread (DEC 2011).	**Possible** *Lomandra hermaphrodita* historically recorded within the site.

Table 6: Summary of conservation significant fauna species recorded or deemed possible or likely to occur within the site (continued)

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Idiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	P3	-	Widely distributed in sandy areas on the Swan Coastal Plain and on Rottnest Island (Prince 2003).	**Possible**: Suitable habitat present (sandy soils) within the site.
Mammal					
Isoodon fusciventer	Quenda	P4	-	Dense scrubby, often swampy, vegetation with dense cover up to one metre high (DEC 2012)	**Likely** Suitable habitat (scrubby vegetation) present within the site. .
Reptile					
Neelaps calonotos	Black-striped snake	P3	-	Coastal and near-coastal dunes, sandplains supporting heathlands and Banksia spp. woodlands (Bush et al. 2002).	**Possible**: Suitable habitat (banksia woodland) present within the site.

4.4 Declared pests

One species listed as a declared pest (C3) pursuant to the BAM Act, **Oryctolagus cuniculus* (rabbit), was identified from diggings within the site.

4.5 Black cockatoos

4.5.1 Desktop assessment

The site is located within the distribution range of Carnaby's black cockatoo and forest red-tailed black cockatoo and within the north-western most extent of the Baudin's black cockatoo distribution range (DoEE 2016c, b, a).

The site is located within the Carnaby's black cockatoo modelled breeding range but not within Baudin's black cockatoos breeding range (DoEE 2016b, a).

No breeding range information for forest red-tailed black cockatoo is provided in DoEE (2016c). However, on the Swan Coastal Plain the species is known to breed near Baldivis, Mundijong, Stake Hill, Karnup, Murdoch and possibly Perry Lakes (Johnstone *et al.* 2017). Therefore, the site is likely a location for suitable breeding.

No known roosts associated with black cockatoos occur within 1000 m of the site with the closest roost being approximately 2.3 km west.

The results of the black cockatoo desktop assessment are summarised in **Table 7** and shown in **Figure 5**.

Table 7: Summary of black cockatoo background review

Category		Site context	Source
Species distribution		• Site is located within the modelled distribution range of Carnaby's black cockatoo and within its breeding range. • Site is located within the modelled distribution range of Baudin's black cockatoo but not within its breeding range. • Site is located within the modelled distribution range of forest red-tailed black cockatoo.	(DoEE 2016a, b, c)
Carnaby's black cockatoo breeding areas (12 km radius surrounding breeding sites)		• No confirmed breeding areas intersect the site. • One possible breeding area intersects the site.	(Glossop *et al.* 2011)
Important bird areas for Carnaby's black cockatoo		• Site is located within the 'Northern Swan Coastal Plain' IBA. • The Northern Swan Coastal Plain IBA is estimated to support 4600-15000 Carnaby's cockatoos during the non-breeding season and a small number of breeding individuals, forming the largest population of non-breeding birds in south-western Australia (BirdLife International 2022).	(DPaW 2013; BirdLife International 2022)
Roost site		• None within the site • 23 roost sites within 12 km of the site (**Table 8** and **Table 9)**: ◦ 11 associated with white-tailed^ black cockatoos only. ◦ 7 associated with forest red-tailed black cockatoos only. ◦ 5 associated with white^ and red-tailed black cockatoos.	(Peck *et al.* 2019)
Foraging habitat	Carnaby's black cockatoo	• Potential native foraging habitat is mapped throughout the site. • Additional areas of potential native foraging habitat mapped within the wider local area, including adjacent to the eastern portion of the site.	(Emerge Associates 2021)
		• No pine plantations mapped within the site • Gnangara pine plantation is within 12km of the site.	(Forest Products Commission 2020)
	Baudin's black cockatoo	• Potential native foraging habitat is mapped throughout the site. • Additional areas of potential native foraging habitat mapped within the wider local area, including adjacent to the eastern portion of the site.	(Emerge Associates 2021)
	Forest red-tailed black cockatoo^	• Potential native foraging habitat is mapped throughout the site. • Additional areas of potential native foraging habitat mapped within the wider local area, including adjacent to the eastern portion of the site.	(Emerge Associates 2021)

^Carnaby's and/or Baudin's black cockatoo

Table 8: White-tailed black cockatoos recorded in roosts within 12 km of the site (Peck et al. 2019)

Roost ID	Year and number of individuals									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
MUNHELR001	NS	3	16	42	124	0	44	0	3	0
MUNHELR002	NS	NS	NS	NS	NS	NS	NS	NS	0	66
SWABALR001	0	40	0	92	0	35	0	0	0	0
SWABALR004	0	NS	NS	NS	0	5	105	0	0	0
SWABULR003	NS	NS	NS	NS	NS	NS	8	0	0	NS
SWAELLR001	NS	NS	NS	NS	14	NS	280	0	0	NS
SWAHENR002	NS	NS	NS	NS	NS	NS	NS	50	0	0
SWALEXR001	0	80	0	0	181	0	0	0	34	753
SWALEXR002	185	0	NS	0	0	0	0	NS	NS	NS
SWAMILR001	NS	NS	NS	NS	0	NS	250	0	40	0
SWAVINR003	NS	NS	NS	NS	NS	NS	21	0	0	3
SWAWHIR001	NS	69	13	NS	NS	0	0	7	15	NS
WANGNAR001	0	NS	NS	NS	0	NS	454	316	157	255
WANGNAR003	0	14	0	0	0	0	0	0	0	0
WANGNAR004	27	0	0	0	0	0	0	0	0	12
WANGNAR005	NS	NS	NS	100	0	14	0	260	NS	NS

NS = not surveyed

Table 9: Forest red-tailed black cockatoo recorded in roosts within 12 km of the site (Peck et al. 2019)

Roost ID	Year and number of individuals					
	2014	2015	2016	2017	2018	2019
BAYEMBR002	NS	NS	NS	NS	34	NS
BAYMORR001	0	0	36	130	300	299
BAYMORR002	NS	NS	NS	8	30	2
MUNHELR001	0	0	4	31	0	13
MUNHELR002	NS	NS	NS	NS	79	0
SWABALR003	NS	NS	0	120	151	151
SWABULR005	NS	NS	NS	NS	41	0

Table 9: Forest red-tailed black cockatoo recorded in roosts within 12 km of the site (Peck et al. 2019)(continued)

Roost ID	Year and number of individuals					
	2014	2015	2016	2017	2018	2019
SWAHAZR001	NS	NS	NS	NS	NS	12
SWAVINR003	NS	NS	31	5	0	0
SWAWESR001	NS	NS	0	0	36	NS
SWAWHIR001	NS	0	0	4	0	NS
WANGNAR005	0	0	0	7	NS	NS

NS = not surveyed

4.5.2 Habitat

4.5.2.1 Breeding

A total of 283 black cockatoo habitat trees were recorded within the site as shown in **Figure 6**.

The habitat trees comprised 106 *Eucalyptus rudis* (flooded gum), 105 marri, 32 jarrah, 16 *Eucalyptus todtiana* (coastal blackbutt), three tuart, and 21 stag (dead) trees.

An internal hollow inspection was undertaken for 12 habitat trees that were determined to potentially contain suitable hollows based on the initial inspection from ground level. Of the 12 trees inspected, none were determined to contain suitable hollows. The remaining trees contained no suitable hollows for breeding by black cockatoos.

A summary of the habitat trees recorded within the site is provided in **Table 10** and an inventory in **Appendix F**.

Table 10: Habitat trees recorded within the site

Category	No. trees
Known nesting trees	0
Suitable nesting trees	0
Potential nesting trees	283

4.5.2.2 Roosting

No roosts or evidence of roosting were observed within the site during the survey.

Native and non-native trees within the site have the potential to provide roosting habitat for black cockatoos.

4.5.2.3 Foraging

A total of 28.73 ha of foraging habitat for Carnaby's black cockatoo, 28.67 ha for Baudin's black cockatoo and 18.72 ha for forest red-tailed black cockatoo were recorded in the site as shown in **Figure 7** to **Figure 9**.

The majority of the foraging habitat occurs as a contiguous area of mixed woodland vegetation and comprises a combination of primary, secondary and non-food plants. Dominant primary food plants are *Banksia menziesii* (firewood banksia), *Banksia attenuata* (candle stick banksia), jarrah and marri.

The extent of foraging habitat by value category is detailed in **Table 11**.

Table 11: Proportion of native and non-native patches of foraging habitat

Foraging value	Black cockatoo species and area of foraging habitat (ha)		
	Carnaby's	Baudin's	Forest red-tailed
Native	28.70	28.67	18.65
Non-native	0.03	0.00	0.07
Total	**28.73**	**28.67**	**18.72**

4.5.2.4 Total habitat

A total of 33.37 ha of black cockatoo habitat was recorded in the site as shown in **Figure 10**.

5 Discussion

5.1 Fauna and fauna habitat

The 27 native fauna species recorded within the site are mostly common and widespread across the Swan Coastal Plain and therefore records for these species were not unexpected. The Carnaby's black cockatoo and forest red-tailed black cockatoo were also not unexpected due to the suitable foraging habitat available within the site.

The habitat values within the site have been modified by historical clearing for various uses over the years, which has resulted in the removal of some of the native vegetation. However, patches of native vegetation still remain providing habitat for a range of fauna species.

Habitat values in the site are greatest with respect to areas of **woodland** habitat, which covers approximately 24% of the site. This habitat provides a contiguous cover of predominantly native trees and is supported by an understorey of native shrubs.

Approximately 44% of the site contains either **closed forest**, **open forest** or **open woodland** habitats. While these habitats contain native trees of various coverages, the lack of understorey limits their value for native fauna in the area. These habitats are likely to be predominantly used by common and widespread native and non-native fauna with non-specific habitat requirements, which enable them to persist in highly modified environments.

Approximately 3% of the site contains **shrubland** habitat. While this habitat provides value to many native fauna species, particularly those that are ground dwelling, the relative extent of this habitat is small.

The remainder of the site (approximately 29%) comprises **cleared** area which contains no to minimal vegetation and may be used occasionally by common and widespread native and non-native fauna species.

5.2 Conservation significant fauna

Carnaby's black cockatoo and forest red-tailed black cockatoo were recorded from foraging evidence within the site. Both species and Baudin's black cockatoo are discussed further in **Section 5.3**.

Seven additional fauna species of conservation significance were considered to possibly occur in the site.

Pacific swift and Peregrine falcon are highly mobile species that may opportunistically fly over or forage in the site for short periods of time as part of a much larger home range. Neither of these species would breed within the site. Any occurrence of Pacific swift and peregrine falcon in the site would likely be in the air space and largely independent from terrestrial habitat.

The black-striped snake, quenda, swan coastal plain shield-backed trapdoor spider, graceful sunmoth and Douglas's broad-headed bee could all possibly occur with suitable habitat present within the site and are either within or close to current known distribution ranges.

5.3 Black cockatoo habitat values

Evidence of foraging attributed to Carnaby's black cockatoo and forest red-tailed black cockatoo were recorded within the site. Records for these species were not unexpected as the site is located within its modelled distribution range and suitable habitat occurs within the site and the local area.

Although not recorded during the field survey, Baudin's black cockatoo is possible to occur as suitable habitat for this species exists within the site. However, the site is located on the north-west edge of the species modelled distribution range so occurrences may be less likely than other black cockatoo species (DBCA 2021).

5.3.1 Breeding

As none of the habitat trees contain hollows suitable for use by black cockatoos for breeding, the site does not currently provide breeding habitat for any of the three species of black cockatoo. The habitat trees within the site have the potential to form suitable hollows in the future. However, it will likely take many decades for hollows to form that are large enough to be suitable for use by black cockatoos for breeding.

5.3.2 Roosting

While no dusk roost survey was undertaken, no secondary evidence of roosting such as branch clippings, droppings or feathers were observed within the site. Therefore, there is no reason to suspect that roosting by black cockatoos has recently occurred in the site. Nevertheless, the site contains many tall trees and groups of tall trees that have the potential to provide roosting habitat for black cockatoos.

5.3.3 Foraging

The site contains native and non-native foraging habitat for all three species of black cockatoo. The highest value foraging resource in the site for all species is associated with stands of marri trees scattered throughout, particularly in the northern portion of the site. This is added to by banksia woodland vegetation in the southeast providing a total of over 28 ha of high value foraging habitat for Carnaby's black cockatoo.

The secondary foraging sources for both Carnaby's black cockatoo and forest red-tailed black cockatoo is predominantly associated with scattered *Eucalyptus todtiana* (coastal blackbutt), sheoak or grass trees in the understory. While there are records of black cockatoos consuming the fruit of these plants (Groom 2011; DoEE 2017), they are secondary options and not as important food sources compared to marri or jarrah. *Agonis flexuosa,* which is considered a secondary foraging source for Carnaby's black cockatoo, also occurs within the site and is considered non-native in this part of Western Australia.

5.3.4 Total habitat

The overall black cockatoo habitat of 33.37 ha was lower than that recorded previously by PGV Environmental (38.21 ha). This was due to a finer scale mapping process that eliminated areas of open ground that contain no habitat essential to black cockatoos.

6 Conclusions

6.1 Fauna and fauna habitat

The highest fauna habitat values are associated with the **woodland** habitat which occurs over 23.97% of the site. Remaining vegetation within the site supports a range of forest, open woodland and shrubland habitats which provide limited value to fauna species of conservation significance and is likely to primarily be used by common and widespread native and non-native fauna with non-specific habitat requirements. The remainder of the site comprises cleared areas (28.67%).

A total of 27 native fauna species were recorded within the site, including two species of conservation significance, Carnaby's black cockatoo (endangered) and forest red-tailed black cockatoo (vulnerable).

Eight other species of conservation significance not recorded during the field survey may possibly occur in the site: Baudins black cockatoo, Pacific swift, peregrine falcon, quenda, black-striped snake, Swan Coastal Plain shield backed trapdoor spider, graceful sunmoth and Douglas's broad headed bee.

6.2 Black cockatoos

The site occurs within the modelled distribution of Carnaby's black cockatoo, forest red-tailed black cockatoo and Baudin's black cockatoo. Carnaby's black cockatoo and forest red-tailed black cockatoo were recorded in the site during the field survey and Baudin's black cockatoo is possible to occur.

The site contains 283 habitat trees, none of which contain hollows suitable for use by black cockatoos for breeding. Therefore, the site does currently not provide breeding habitat for any species of black cockatoo.

No roosts or evidence of roosting by any species of black cockatoo was recorded within the site during the field survey. Tall native and non-native trees within the site represent suitable roosting habitat for species of black cockatoo.

A total of 28.73 ha of foraging habitat for Carnaby's black cockatoo was mapped within the site of which 28.7 ha (99.9%) comes from native vegetation and 0.03 ha (0.1%) comes from non-native vegetation.

A total of 28.67 ha of foraging habitat for Baudin's black cockatoo was mapped in the site of which all comes from native vegetation.

A total of 18.72 ha of foraging habitat for forest red-tailed black cockatoo was mapped in the site of which 18.65 ha (99.63%) comes from native vegetation and 0.07 ha (0.37%) comes from non-native vegetation.

A total of 33.33 ha of black cockatoo habitat occurs in the site.

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7.2 Online references

The online resources that have been utilised in the preparation of this report are referenced in **Section 7.1**, with access date information provided in **Table R 1**.

Table R 1 Access dates for online references

Reference	Date accessed	Website or dataset name
Atlas of Living Australia (2022)	1 March 2022	The Atlas of Living Australia's Spatial Portal
BirdLife International (2022)	1 March 2022	Important Bird Areas
BoM (2022)	23 May 2022	Climate Data Online
DAWE (2022)	14 February 2022	Protected Matters Search Tool
DBCA (2022)	18 February 2022	NatureMap
WALIA (2022)	1 March 2022	Landgate Map Viewer

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Figure 8: Baudin's Black Cockatoo Foraging Habitat

Figure 9: Forest Red-tailed Black Cockatoo Foraging Habitat

Figure 10: Black Cockatoo Habitat

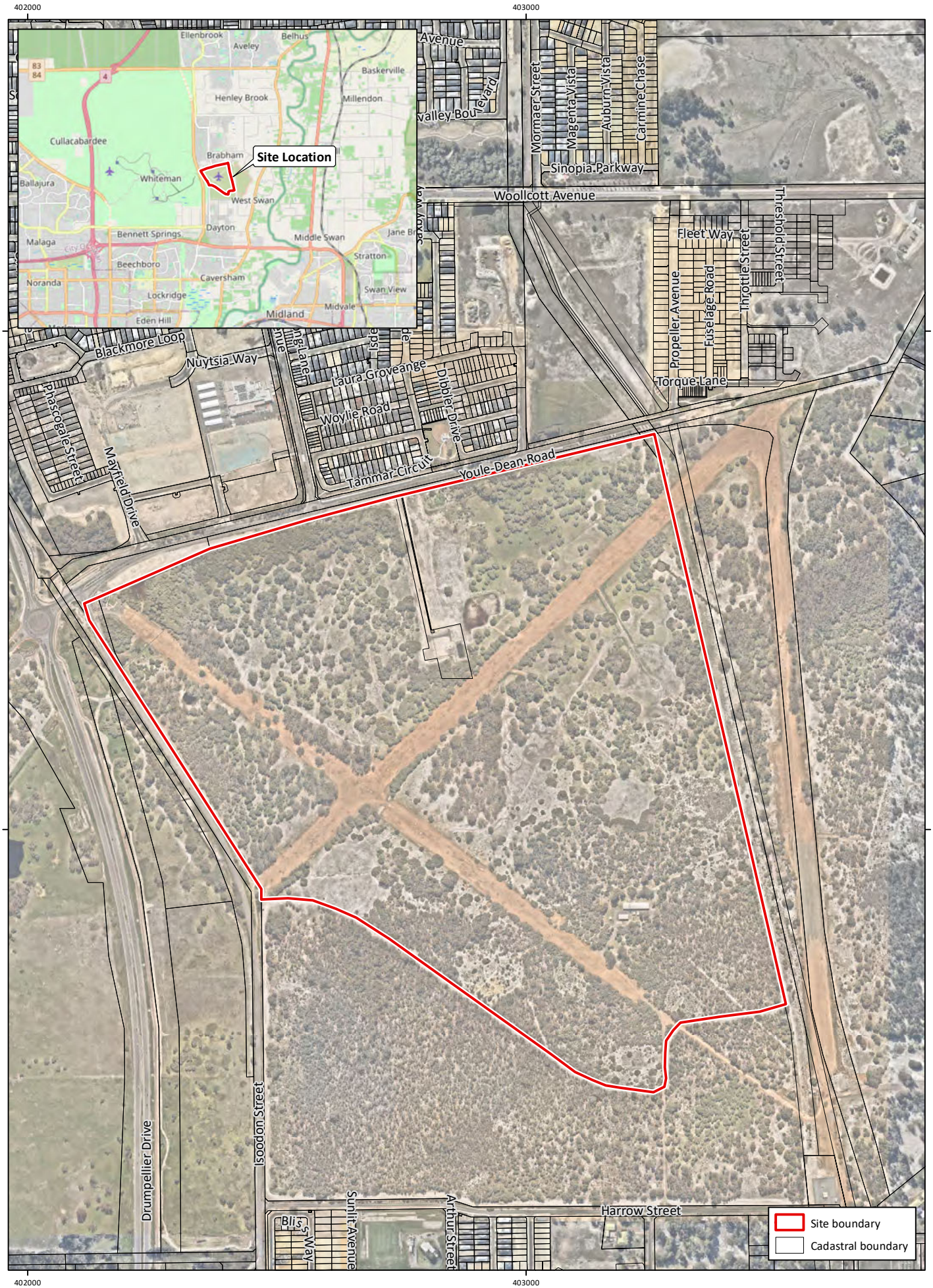


Figure 1: **Site Location**

Project:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F175

Drawn:	GAR
Date:	22/02/2022
Checked:	NAW
Approved:	RAW
Date:	27/05/2022

N

0 100 200
Metres

Scale: 1:10,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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©Landgate (2021). Nearmap Imagery date: 25/08/2021

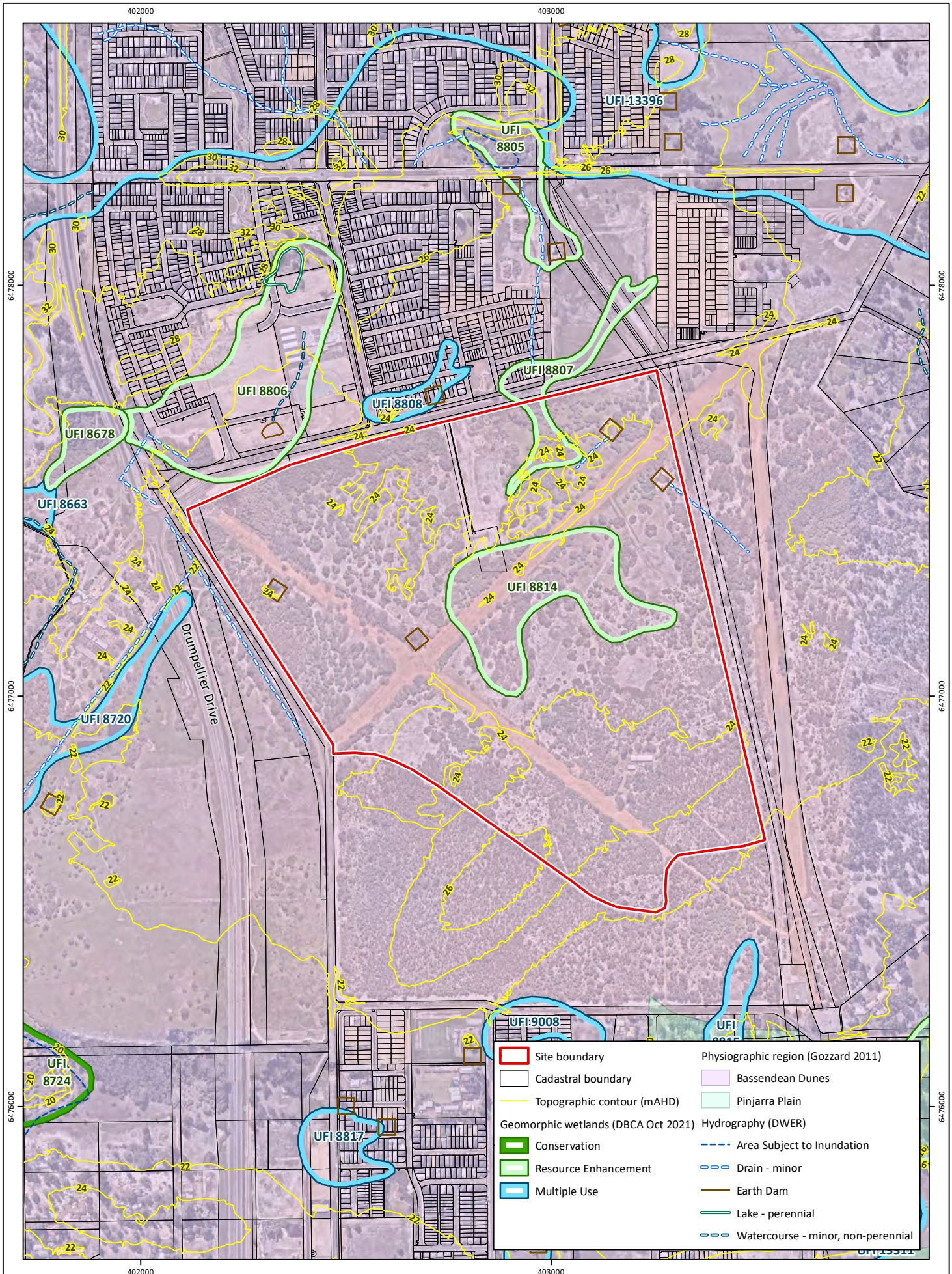


Figure 2: Hydrography, Soils and Topography

Project: Basic Fauna and Targeted Black Cockatoo Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(28)--F176

Drawn:	GAR
Date:	22/02/2022
Checked:	NAW
Approved:	RAW
Date:	27/05/2022

N

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Metres

Scale: 1:12,000@A4

GDA 1994 MGA Zone 50

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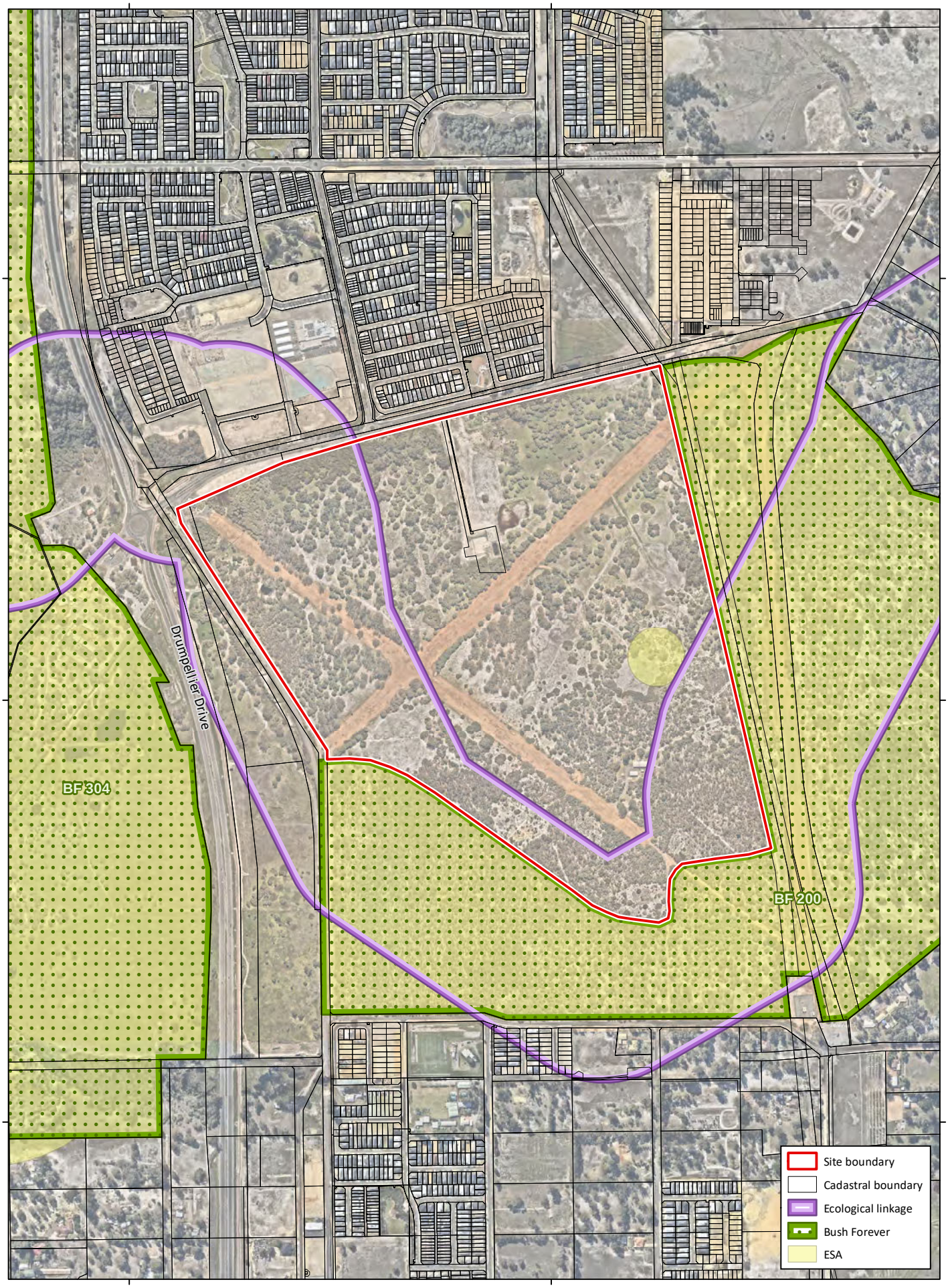


Figure 3: Environmental Features

Project: Basic Fauna and Targeted Black Cockatoo Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number:
EP17-131(28)--F177

Drawn:	GAR
Date:	22/02/2022
Checked:	NAW
Approved:	RAW
Date:	27/05/2022

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Metres

Scale: 1:12,000@A4

GDA 1994 MGA Zone 50

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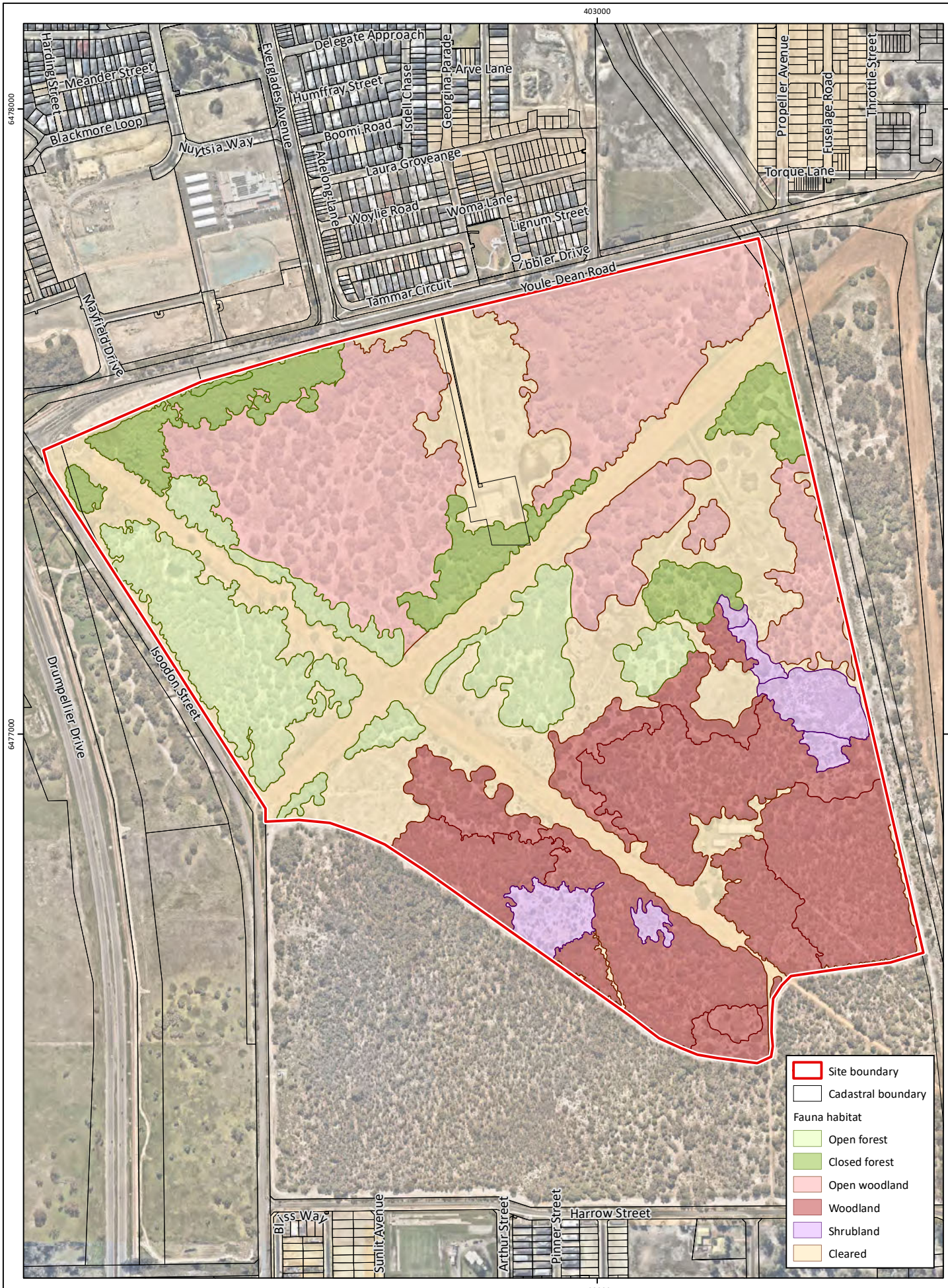


Figure 4: Fauna Habitat

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Client:	Peet Limited

Plan Number:
EP17-131(28)--F179

Drawn:	GAR
Date:	22/02/2022
Checked:	NAW
Approved:	RAW
Date:	27/05/2022

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Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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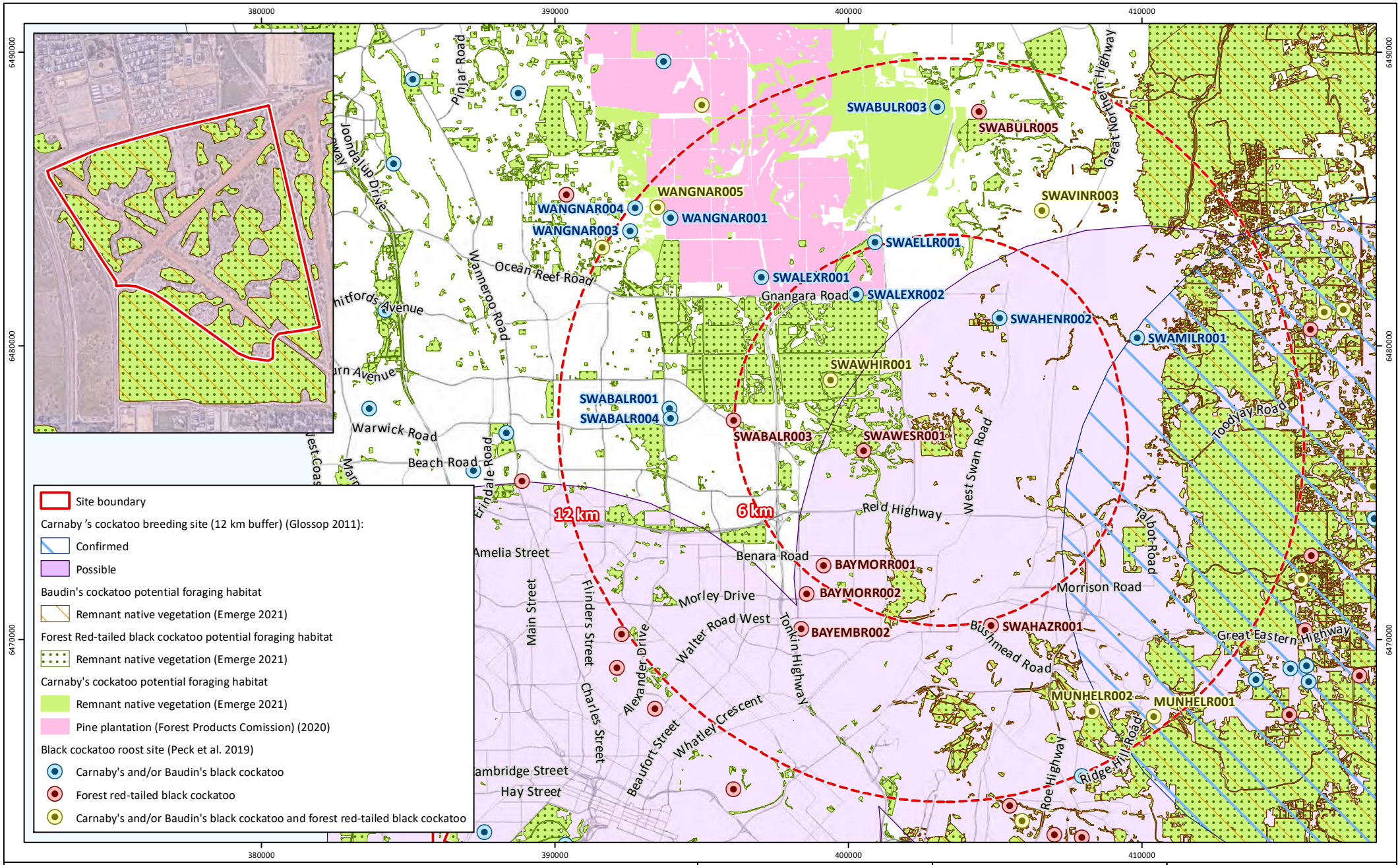


Figure 5: Black Cockatoo Habitat Context

Project:	Basic Fauna and T argeted Blac k Coc katoo Asse ssm e nt L ot 822 Y oule-De an Rd , Brab ham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F178

Drawn:	GAR
Date:	22/02/2022
Checked:	NAW
Approved:	RAW
Date:	27/05/2022

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Scale: 1:170,000@A4
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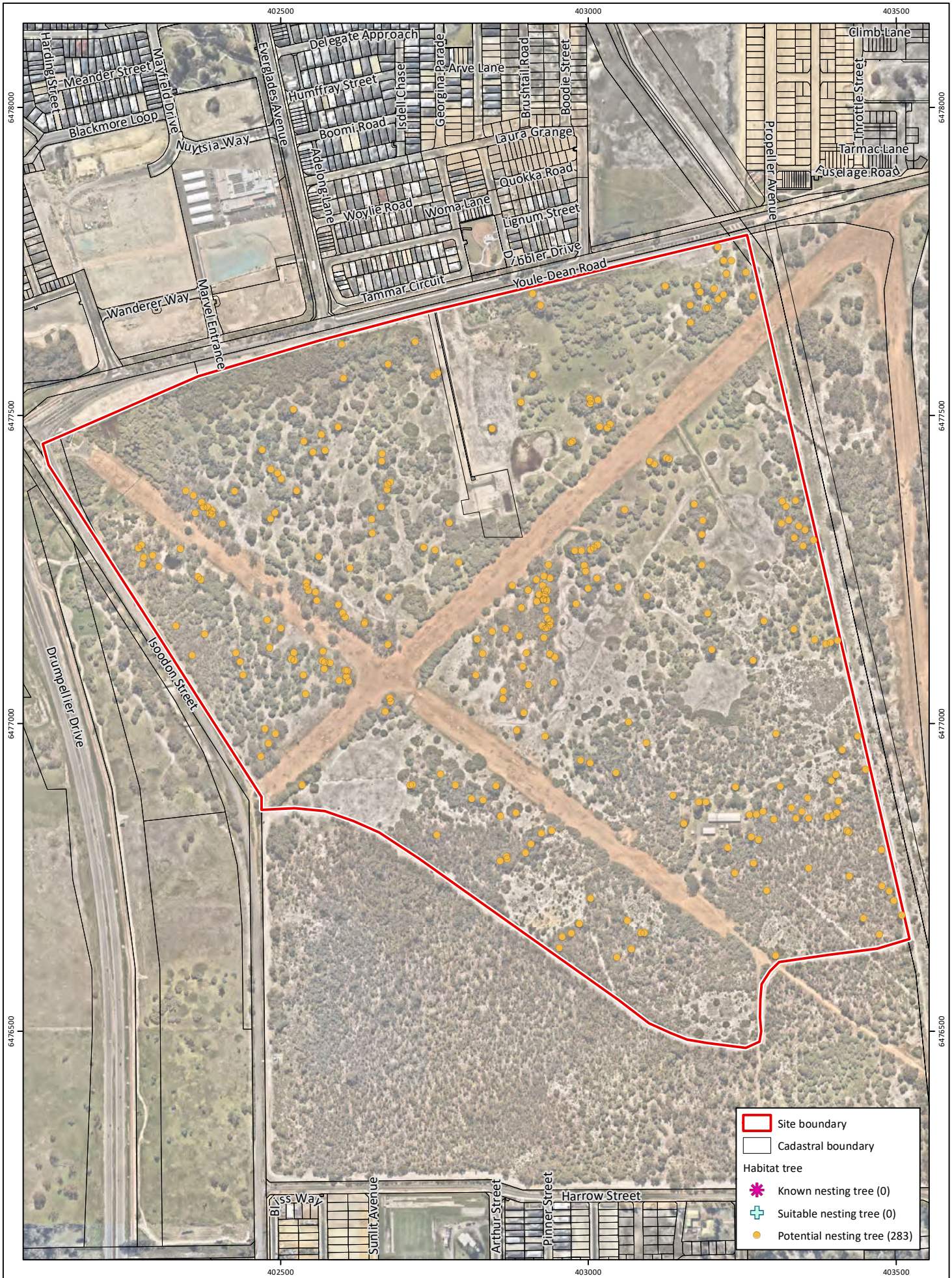


Figure 6: Black Cockatoo Habitat Trees

Project:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F180a

Drawn:	GAR
Date:	19/01/2023
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Approved:	DRAFT
Date:	--/--/----

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GDA 1994 MGA Zone 50

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Figure 7: **Carnaby's Black Cockatoo Foraging Habitat**

Project:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F181a

Drawn:	GAR
Date:	19/01/2023
Checked:	DRAFT
Approved:	DRAFT
Date:	--/--/----

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Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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Figure 8: **Baudin's Black Cockatoo Foraging Habitat**

Project:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F182a

Drawn:	GAR
Date:	19/01/2023
Checked:	DRAFT
Approved:	DRAFT
Date:	--/--/----

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Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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Figure 9: **Forest Red-tailed Black Cockatoo Foraging Habitat**

Project: Basic Fauna and Targeted Black Cockatoo Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(28)--F183a

Drawn:	GAR
Date:	19/01/2023
Checked:	DRAFT
Approved:	DRAFT
Date:	--/--/----

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Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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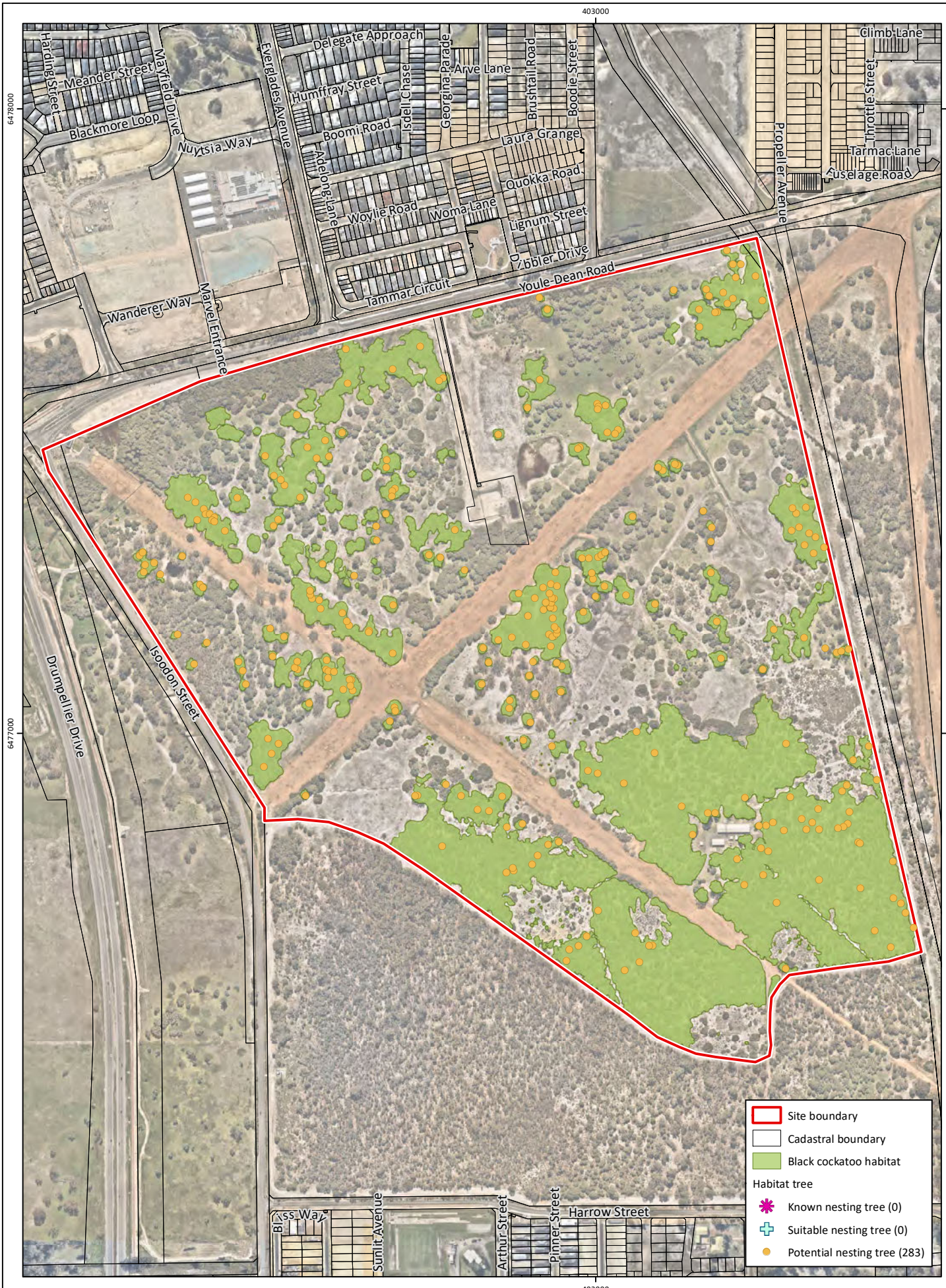


Figure 10: Black Cockatoo Habitat

Project:	Basic Fauna and Targeted Black Cockatoo Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(28)--F197a

Drawn:	GAR
Date:	19/01/2023
Checked:	DRAFT
Approved:	DRAFT
Date:	--/--/----

N

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Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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Appendix A

Additional Information

Flora and Vegetation Report / Fauna Report - Appendix			
Date	**Version**	**Summary of changes**	**Author**
22/05/2020	001	Created appendix from *Emerge Fauna only Report-Appendix A (V010).* Added information regarding black cockatoos	RAW
15/06/2020	002	Added references for Emerge BC datasets and updated State category listings of conservation significant fauna	RAW
19/06/2020	003	Added fauna literature section (previously separate appendix)	MS
17/03/2021	005	Added wetland section	MS
03/12/2021	006	Minor update to black cockatoo section to reference new Emerge foraging habitat spatial datasets	MS
28/01/2021	007	Minor updates to reflect the genus change for Carnaby's and Baudin's cockatoo	MS

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Conservation Significant Fauna

Threatened and priority fauna

Fauna species considered rare or under threat warrant special protection under Commonwealth and/or State legislation. At the Commonwealth level, fauna species can be listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) as 'threatened', 'migratory' or 'marine' as described in **Table 1**.

Migratory species comprise birds recognised under international treaties including:

- *Japan Australia Migratory Bird Agreement 1981* (JAMBA)
- *China Australia Migratory Bird Agreement 1998* (CAMBA)
- *Republic of Korea-Australia Migratory Bird Agreement 2007* (ROKAMBA)
- *Bonn Convention 1979* (The Convention on the Conservation of Migratory Species of Wild Animals).

Fauna species listed as threatened and migratory are protected in Australia as 'matters of national environmental significance' (MNES) under the EPBC Act.

Table 1: Definitions of conservation significant fauna species pursuant to the EPBC Act

Conservation Code	Category
X	Threatened Fauna –Extinct There is no reasonable doubt that the last member of the species has died.
EW[#]	Threatened Fauna –Extinct in the Wild Taxa which are known only to survive in cultivation, captivity or as a naturalised population outside its past range, or taxa which have not been recorded in its known and/or expected habitat despite appropriate exhaustive surveys.
CR[#]	Threatened Fauna – Critically Endangered Taxa which are considered to be facing an extremely high risk of extinction in the wild.
EN[#]	Threatened Fauna – Endangered Taxa which are considered to be facing a very high risk of extinction in the wild.
VU[#]	Threatened Fauna – Vulnerable Taxa which are considered to be facing a high risk of extinction in the wild.
Migratory[#]	Migratory Fauna All migratory species that are: (i) native species; and (ii) from time to time included in the appendices to the Bonn Convention; and (b) all migratory species from time to time included in annexes established under JAMBA, CAMBA and ROKAMBA; and All native species from time to time identified in a list established under, or an instrument made under, an international agreement approved by the Minister.
Ma	Marine Fauna Species in the list established under s248 of the EPBC Act

[#]matters of national environmental significance (MNES) under the EPBC Act

In Western Australia, fauna taxa may be classed as 'threatened', 'extinct', or 'specially protected' under the *Biodiversity Conservation Act 2016* (BC Act), which is enforced by Department of Biodiversity Conservation and Attractions (DBCA) (DBCA 2019a). The definitions of these categories are provided in **Table 2**.

Table 2: Definitions of specially protected fauna schedules under the BC Act (DBCA 2019a)

Category	Conservation Code	Definition
Threatened	CR	Critically endangered Threatened species considered to be facing an extremely high risk of extinction in the wild in the immediate future.
	EN	Endangered Threatened species considered to be facing a very high risk of extinction in the wild in the near future.
	VU	Vulnerable Threatened species considered to be facing a high risk of extinction in the wild in the medium-term future.
Extinct	EX	Extinct Species where there is no reasonable doubt that the last member of the species has died.
	EW	Extinct in the wild Species that is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form. Note that no species are currently listed as EW.
Specially protected	MI	Migratory species Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth Includes birds that subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds.
	CD	Species of special conservation interest (conservation dependent fauna) Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened.
	OS	Other specially protected species Fauna otherwise in need of special protection to ensure their conservation.

Fauna species that may be threatened or near threatened but lack sufficient information to be legislatively listed may be added to the DBCA's *Priority Fauna List* (DBCA 2018b). Species listed under priorities 1-3 comprise possible threatened species that do not meet survey criteria or are otherwise data deficient. Species listed under priority 4 are those that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons (DBCA 2019a).

Priority fauna species are considered during State approval processes. Priority fauna categories and definitions are listed in **Table 3** (DBCA 2019a).

Table 3: Definitions of priority fauna categories on DBCA's Priority Fauna List (DBCA 2019a)

Conservation Code	Category
P1	Priority 1 – Poorly known Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
P2	Priority 2 – Poorly known Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
P3	Priority 3 – Poorly known Species that are known from several locations and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
P4	(a) Priority 4 – Rare species Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands. (b) Priority 4 – Near Threatened Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (c) Priority 4 – Other Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Black cockatoos

Three threatened species of black cockatoo occur on the Swan Coastal Plain (referred to herein collectively as 'black cockatoos'):

- *Zanda*[1] *latirostris* (Carnaby's black cockatoo) which is listed as 'endangered' under the EPBC Act and the BC Act.
- *Zanda*[1] *baudinii* (Baudin's black cockatoo) which is listed as 'endangered' under the EPBC Act and the BC Act.
- *Calyptorhynchus banksii naso* (forest red-tailed black cockatoo) which is listed as 'vulnerable' under the EPBC Act and the BC Act.

There are a range of regional studies and spatial datasets available which provide information on black cockatoo records and potential habitat mapping. These are detailed below.

Species distribution and breeding range

Broad-scale maps are available for the modelled distribution of Baudin's black cockatoo, Carnaby's black cockatoo and forest red-tailed black cockatoo (DSEWPaC 2011; DoEE 2016a, b).

The modelled distribution maps also include 'known breeding areas' and 'predicted breeding range' for Baudin's black cockatoo and 'breeding range' and 'non-breeding range' for Carnaby's black cockatoo.

No breeding range modelling is available for forest red-tailed black cockatoo but the species is known to breed mainly in the jarrah forest region (DBCA 2017a) and in small populations on the Swan Coastal Plain within the Baldivis, Stake Hill, Lake McLarty and Capel area and increasingly in the Perth metropolitan area (DAWE 2020).

Breeding habitat

Department of Environment and Conservation (DEC, now Department of Biodiversity, Conservation and Attractions (DBCA)) and fauna experts, have identified and mapped Carnaby's black cockatoo habitat on the Swan Coastal Plain and Jarrah Forest regions (Glossop *et al.* 2011). This dataset includes mapping of Carnaby's black cockatoo breeding sites based on point records of breeding from a range of sources. Breeding sites were classified as 'confirmed' where eggs or chicks were recorded and 'possible' where observations relating to Carnaby's black cockatoo breeding that did not include actual records of eggs or chicks (e.g. chewed hollows or records of breeding or nesting behaviour by an expert observer).

A 12 km buffer applies to each site to 'reflect the flexible use of these areas by cockatoos and to indicate the important zone for access to potential feeding habitat' (Glossop *et al.* 2011). Glossop *et al.* (2011) state that the areas mapped in the dataset are not a comprehensive record of Carnaby's black cockatoo breeding and that many nesting sites are not known.

While this dataset only applies to Carnaby's black cockatoo, the information it contains is also applicable for Baudin's black cockatoo and forest red-tailed black cockatoo as they have similar

[1] Previously *Calyptorhynchus*

breeding habitat requirements. That is, breeding sites that are suitable for Carnaby's black cockatoo may also be suitable for Baudin's black cockatoo and forest red-tailed black cockatoo, if located within their distribution/breeding ranges.

BirdLife Australia also maintain a database of confirmed black cockatoo breeding sites which is accessible via a paid search system. BirdLife Australia have advised that their database is comprised of data collected during surveys by staff and volunteers of which most (>99%) surveys are of Carnaby's black cockatoo. They have also advised that the dataset is not comprehensive and that an absence of known nests does not necessarily indicate a lack of breeding activity.

The Carnaby's black cockatoo recovery plan also identifies 13 'important bird areas' for Carnaby's black cockatoo, which are identified as 'sites of global bird conservation importance' (DPaW 2013). These 'important bird areas' comprise sites supporting at least 20 breeding pairs or 1% of the population regularly utilising an area in the non-breeding part of the range.

Confirmed roost sites

BirdLife Australia undertakes annual monitoring of black cockatoo overnight roost sites as part of the annual 'Great Cocky Count' community-based survey. Information gathered from these monitoring events provides roost locations and recorded black cockatoo numbers (Peck *et al.* 2019).

Native foraging habitat

Glossop et al. (2011) also mapped 'areas requiring investigation as Carnaby's black cockatoo feeding habitat' for the Swan Coastal Plain and Jarrah Forest regions, based on regional vegetation mapping that may contain plant species known to be foraged upon by Carnaby's black cockatoo. Note that this dataset does not include observations or point records of Carnaby's black cockatoo feeding. This dataset represents areas of vegetation that may potentially provide foraging habitat for Carnaby's black cockatoo.

In order to account for clearing of native vegetation that has occurred since the Glossop et al. (2011) dataset was created and to incorporate updated vegetation mapping and information on foraging behaviour of Carnaby's black cockatoo, Emerge have revised this dataset to represent the most up to date information available. Furthermore, Emerge have used a similar methodology to Glossop et al. (2011) to define potential foraging habitat for Baudin's black cockatoo and forest-red tailed cockatoos.

Specifically, DBCA (2021), DBCA (2019b) and DPIRD (2018) regional vegetation complex mapping was used to determine which areas of remnant vegetation support plant species known to be foraged upon by Carnaby's black cockatoo, Baudin's black cockatoo or forest red-tailed cockatoos. Where these vegetation complexes intersect remnant vegetation mapped by DPIRD (2020) they were considered to represent potential foraging habitat for Carnaby's black cockatoo, Baudin's black cockatoo and/or forest red-tailed cockatoo.

Pine plantations also provide an important food source for Carnaby's black cockatoo, but were not included in the original Glossop et al. (2011) dataset. Mapping of pine plantations is available from the Forest Products Commission (Forest Products Commission 2020) and was considered in the assessment of Carnaby's black cockatoo foraging habitat.

Pest fauna

A number of legislative and policy documents exist in relation to pest fauna management at state and national levels. The *Biosecurity and Agriculture Management Act 2007* (BAM Act) is the principle legislation guiding pest fauna management in Western Australia and lists declared pest species.

Declared Pests

Part 2.3.23 of the BAM Act requires a person must not; "*a) keep, breed or cultivate the declared pest; b) keep, breed or cultivate an animal, plant or other thing that is infected or infested with the declared pest; c) release into the environment the declared pest, or an animal, plant or other thing that is infected or infested with the declared pest; or d) intentionally infect or infest, or expose to infection or infestation, a plant, animal or other thing with a declared pest*".

Under the BAM Act, all declared pests are assigned a legal status, as described in **Table 4**. Species assigned to the 'declared pest, prohibited - s12' category are placed in one of three control categories, as described in **Table 5**.

The *Biosecurity and Agriculture Management Regulations 2013* specify keeping categories for species assigned to the 'declared pest - s22(2)' category, which relate to the purposes of which species can be kept, as well as the entities that can keep them. The categories are described in **Table 6**.

The Western Australian Organism List (WAOL) provides the status of organisms which have been categorised under the BAM Act (DAFWA 2016).

Table 4: Legal status of declared pest species listed under the BAM Act (DAFWA 2016)

Category	Description
Declared Pest Prohibited - s12	May only be imported and kept subject to permits. Permit conditions applicable to some species may only be appropriate or available to research organisations or similarly secure institutions.
Declared Pest s22(2)	Must satisfy any applicable import requirements when imported, and may be subject to an import permit if they are potential carriers of high-risk organisms. They may also be subject to control and keeping requirements once within Western Australia

Table 5: Control categories of declared pest species listed under the BAM Act (DAFWA 2016)

Category	Description
C1	Exclusion Not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2	Eradication Present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3	Management Established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Table 6: Keeping categories of declared pest species listed under the BAM Act (DAFWA 2016)

Category	Description
Prohibited	Can only be kept under a permit for public display and education purposes, and/or genuine scientific research, by entities approved by the state authority.
Exempt	No permit or conditions are required for keeping.
Restricted	Organisms which, relative to other species, have a low risk of becoming a problem for the environment, primary industry or public safety and can be kept under a permit by private individuals.

Wetland Habitat

Geomorphic wetland types

On the Swan Coastal Plain DBCA (2017b) have used the geomorphic wetland classification system developed by Semeniuk (1987) and Semeniuk and Semeniuk (1995) to classify wetlands based on the landform shape and water permanence (hydro-period) as outlined in **Table 7**. DBCA maintains a dataset of the *Geomorphic Wetlands of the Swan Coastal Plain* (DBCA 2018a).

Table 7: Geomorphic Wetlands of the Swan Coastal Plain classification categories (DBCA 2017b)

Level of inundation	Geomorphology			
	Basin	Flat	Channel	Slope
Permanently inundated	Lake	-	River	-
Seasonally inundated	Sumpland	Floodplain	Creek	-
Seasonally waterlogged	Dampland	Palusplain	-	Paluslope

Literature

The main literature used for identifying fauna and fauna habitats is listed in **Table 8** below.

Table 8: Standard literature used for identifying fauna species and habitats.

Conservation Code	Category
Birds	Johnstone and Storr (1998b), Johnstone and Storr (1998a), Pizzey and Knight (2012), Slater *et al.* (2003)
Mammals	Menkhorst and Knight (2011), Triggs (2003)
Amphibia	Tyler and Doughty (2009), Bush *et al.* (2002)
Reptiles	Bush *et al.* (2002)

References

General references

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Johnstone, R. E. and Storr, G. M. 1998a, *Handbook of Western Australian Birds. Volume 2 - Passerines (Blue-Winged Pitta to Goldfinch)*, Western Australian Museum, Perth.

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Pizzey, G. and Knight, F. 2012, *The Fieldguide to the Birds of Australia*, Harper Collins Publishers, Sydney, Australia.

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Appendix B

Database Search Results

Australian Government
Department of Agriculture, Water and the Environment

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. Please see the caveat for interpretation of information provided here.

Report created: 14-Feb-2022

Summary
Details
- Matters of NES
- Other Matters Protected by the EPBC Act
- Extra Information

Caveat
Acknowledgements

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	9
Listed Threatened Species:	62
Listed Migratory Species:	26

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

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

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

Commonwealth Lands:	140
Commonwealth Heritage Places:	None
Listed Marine Species:	31
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	20
Regional Forest Agreements:	1
Nationally Important Wetlands:	3
EPBC Act Referrals:	55
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities [Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.
Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Assemblages of plants and invertebrate animals of tumulus (organic mound) springs of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area	In feature area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area	In buffer area only
Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Corymbia calophylla - Xanthorrhoea preissii woodlands and shrublands of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Shrublands and Woodlands on Muchea Limestone of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community likely to occur within area	In feature area

Listed Threatened Species [Resource Information]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Numenius madagascariensis](#) Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
[Pachyptila turtur subantarctica](#) Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
[Rostratula australis](#) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
[Sternula nereis nereis](#) Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Thalassarche cauta](#) Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
[Thalassarche impavida](#) Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Thalassarche melanophris](#) Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Thalassarche steadi](#) White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
[Zanda baudinii listed as Calyptorhynchus baudinii](#) Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Roosting known to occur within area	In feature area
[Zanda latirostris listed as Calyptorhynchus latirostris](#) Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Species or species habitat known to occur within area	In feature area
FISH			
[Galaxiella nigrostriata](#) Blackstriped Dwarf Galaxias, Black-stripe Minnow [88677]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Thunnus maccoyii](#) Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
INSECT			
[Hesperocolletes douglasi](#) Douglas' Broad-headed Bee, Rottnest Bee [66734]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
MAMMAL			
[Bettongia penicillata ogilbyi](#) Woylie [66844]	Endangered	Species or species habitat known to occur within area	In feature area
[Dasyurus geoffroii](#) Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
[Macroderma gigas](#) Ghost Bat [174]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Neophoca cinerea](#) Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat known to occur within area	In buffer area only
[Pseudocheirus occidentalis](#) Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
OTHER			
[Westralunio carteri](#) Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
PLANT			
[Acacia anomala](#) Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Andersonia gracilis](#) Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat known to occur within area	In feature area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat may occur within area	In buffer area only
Chamelaucium sp. Gingin (N.G.Marchant 6) Gingin Wax [88881]	Endangered	Species or species habitat may occur within area	In buffer area only
Conospermum undulatum Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Darwinia foetida Muchea Bell [83190]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Diplolaena andrewsii [6601]	Endangered	Species or species habitat known to occur within area	In buffer area only
Diuris drummondii Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Drakaea elastica Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area	In feature area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat known to occur within area	In buffer area only
Grevillea curviloba subsp. curviloba Curved-leaf Grevillea [64908]	Endangered	Species or species habitat known to occur within area	In buffer area only
Grevillea curviloba subsp. incurva Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat known to occur within area	In feature area
Grevillea flexuosa Zig Zag Grevillea [2957]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Macarthuria keigheryi Keighery's Macarthuria [64930]	Endangered	Species or species habitat may occur within area	In feature area
Synaphea sp. Fairbridge Farm (D. Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat known to occur within area	In feature area
Trithuria occidentalis Swan Hydatella [42224]	Endangered	Species or species habitat likely to occur within area	In feature area
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pseudemydura umbrina Western Swamp Tortoise [1760]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Migratory Marine Species			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi			
Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris			
Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea			
Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris melanotos			
Pectoral Sandpiper [858]		Species or species habitat likely to occur within area	In feature area
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Numenius madagascariensis			
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pandion haliaetus			
Osprey [952]		Breeding known to occur within area	In buffer area only
Tringa nebularia			
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

Commonwealth Lands [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.

Commonwealth Land Name	State	Buffer Status
Defence		
Defence - BUSHMEAD RIFLE RANGE [50143]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50260]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50259]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50258]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50180]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50177]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50179]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50176]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50178]	WA	In buffer area only
Defence - RAAF CAVERSHAM [50003]	WA	In feature area
Unknown		
Commonwealth Land - [50847]	WA	In buffer area only
Commonwealth Land - [50845]	WA	In buffer area only
Commonwealth Land - [50842]	WA	In buffer area only
Commonwealth Land - [51329]	WA	In buffer area only
Commonwealth Land - [50840]	WA	In buffer area only
Commonwealth Land - [50841]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51325]	WA	In buffer area only
Commonwealth Land - [51324]	WA	In buffer area only
Commonwealth Land - [51327]	WA	In buffer area only
Commonwealth Land - [51326]	WA	In buffer area only
Commonwealth Land - [51308]	WA	In buffer area only
Commonwealth Land - [51260]	WA	In buffer area only
Commonwealth Land - [51261]	WA	In buffer area only
Commonwealth Land - [51174]	WA	In buffer area only
Commonwealth Land - [50894]	WA	In buffer area only
Commonwealth Land - [51309]	WA	In buffer area only
Commonwealth Land - [50839]	WA	In buffer area only
Commonwealth Land - [51264]	WA	In buffer area only
Commonwealth Land - [51237]	WA	In buffer area only
Commonwealth Land - [51265]	WA	In buffer area only
Commonwealth Land - [51234]	WA	In buffer area only
Commonwealth Land - [51172]	WA	In buffer area only
Commonwealth Land - [50934]	WA	In buffer area only
Commonwealth Land - [51173]	WA	In buffer area only
Commonwealth Land - [51236]	WA	In buffer area only
Commonwealth Land - [51238]	WA	In buffer area only
Commonwealth Land - [51230]	WA	In buffer area only
Commonwealth Land - [51233]	WA	In buffer area only
Commonwealth Land - [51235]	WA	In buffer area only
Commonwealth Land - [50846]	WA	In buffer area only
Commonwealth Land - [51171]	WA	In buffer area only
Commonwealth Land - [51176]	WA	In buffer area only
Commonwealth Land - [51170]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51306]	WA	In buffer area only
Commonwealth Land - [51177]	WA	In buffer area only
Commonwealth Land - [51307]	WA	In buffer area only
Commonwealth Land - [51379]	WA	In buffer area only
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Commonwealth Land - [50863]	WA	In buffer area only
Commonwealth Land - [51378]	WA	In buffer area only
Commonwealth Land - [50933]	WA	In buffer area only
Commonwealth Land - [51311]	WA	In buffer area only
Commonwealth Land - [51922]	WA	In buffer area only
Commonwealth Land - [51924]	WA	In buffer area only
Commonwealth Land - [51921]	WA	In buffer area only
Commonwealth Land - [51923]	WA	In buffer area only
Commonwealth Land - [50312]	WA	In buffer area only
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Commonwealth Land - [51178]	WA	In buffer area only
Commonwealth Land - [50829]	WA	In buffer area only
Commonwealth Land - [50823]	WA	In buffer area only
Commonwealth Land - [50822]	WA	In buffer area only
Commonwealth Land - [50946]	WA	In buffer area only
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Commonwealth Land - [50801]	WA	In buffer area only
Commonwealth Land - [51363]	WA	In buffer area only
Commonwealth Land - [51203]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
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Commonwealth Land - [50804]	WA	In buffer area only
Commonwealth Land - [51365]	WA	In buffer area only
Commonwealth Land - [51515]	WA	In buffer area only
Commonwealth Land - [51367]	WA	In buffer area only
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Commonwealth Land - [51361]	WA	In buffer area only
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Commonwealth Land - [51977]	WA	In buffer area only
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Commonwealth Land - [50884]	WA	In buffer area only
Commonwealth Land - [51284]	WA	In buffer area only
Commonwealth Land - [51916]	WA	In buffer area only
Commonwealth Land - [50869]	WA	In buffer area only
Commonwealth Land - [51352]	WA	In buffer area only
Commonwealth Land - [51182]	WA	In buffer area only
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Commonwealth Land - [51910]	WA	In buffer area only
Commonwealth Land - [50862]	WA	In buffer area only
Commonwealth Land - [51915]	WA	In buffer area only
Commonwealth Land - [51181]	WA	In buffer area only
Commonwealth Land - [51360]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [50805]	WA	In buffer area only
Commonwealth Land - [51189]	WA	In buffer area only
Commonwealth Land - [51359]	WA	In buffer area only
Commonwealth Land - [51185]	WA	In buffer area only
Commonwealth Land - [51184]	WA	In buffer area only
Commonwealth Land - [51368]	WA	In buffer area only
Commonwealth Land - [51906]	WA	In buffer area only
Commonwealth Land - [51330]	WA	In buffer area only
Commonwealth Land - [51331]	WA	In buffer area only
Commonwealth Land - [51186]	WA	In buffer area only
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Commonwealth Land - [51175]	WA	In buffer area only
Commonwealth Land - [50853]	WA	In buffer area only
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Commonwealth Land - [50851]	WA	In buffer area only
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Commonwealth Land - [51909]	WA	In buffer area only
Commonwealth Land - [51194]	WA	In buffer area only
Commonwealth Land - [51190]	WA	In buffer area only
Commonwealth Land - [51516]	WA	In buffer area only
Commonwealth Land - [51188]	WA	In buffer area only
Commonwealth Land - [50878]	WA	In buffer area only
Commonwealth Land - [51213]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
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Commonwealth Land - [51328]	WA	In buffer area only
Commonwealth Land - [51373]	WA	In buffer area only
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Commonwealth Land - [51168]	WA	In buffer area only
Commonwealth Land - [51183]	WA	In buffer area only
Commonwealth Land - [51169]	WA	In buffer area only
Commonwealth Land - [51252]	WA	In buffer area only
Commonwealth Land - [51259]	WA	In buffer area only
Commonwealth Land - [51342]	WA	In buffer area only

Listed Marine Species

[Resource Information]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In buffer area only
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thinornis cucullatus as Thinornis rubricollis Hooded Dotterel, Hooded Plover [87735]		Species or species habitat likely to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia			
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In feature area
Mammal			
Neophoca cinerea			
Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat known to occur within area	In buffer area only
Reptile			
Caretta caretta			
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas			
Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Ellen Brook	Nature Reserve	WA	In buffer area only
Errina Road	Nature Reserve	WA	In buffer area only
Greenmount	National Park	WA	In buffer area only
Helena River	Management Area	WA	In buffer area only
John Forrest	National Park	WA	In buffer area only
NTWA Bushland covenant (0074)	Conservation Covenant	WA	In buffer area only
NTWA Bushland covenant (0157)	Conservation Covenant	WA	In buffer area only
Swan River	Management Area	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Talbot Road	Nature Reserve	WA	In buffer area only
Unnamed WA1919/893	Management Area	WA	In buffer area only
Unnamed WA33618	Management Area	WA	In buffer area only
Unnamed WA36440	Management Area	WA	In buffer area only
Unnamed WA44853	Nature Reserve	WA	In buffer area only
Unnamed WA45106	5(1)(g) Reserve	WA	In buffer area only
Unnamed WA46875	Nature Reserve	WA	In buffer area only
Unnamed WA46919	Nature Reserve	WA	In buffer area only
Unnamed WA46920	Nature Reserve	WA	In buffer area only
Unnamed WA49079	Nature Reserve	WA	In buffer area only
Unnamed WA49300	Nature Reserve	WA	In buffer area only
Unnamed WA50069	Nature Reserve	WA	In buffer area only

Regional Forest Agreements

[Resource Information]

Note that all areas with completed RFAs have been included.

RFA Name	State	Buffer Status
South West WA RFA	Western Australia	In buffer area only

Nationally Important Wetlands

[Resource Information]

Wetland Name	State	Buffer Status
Perth Airport Woodland Swamps	WA	In buffer area only
RAAF Caversham	WA	In feature area
Swan-Canning Estuary	WA	In buffer area only

EPBC Act Referrals

[Resource Information]

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Airport & Freight Access Gateway	2010/5384	Controlled Action	Post-Approval	In buffer area only
Brigadoon Estate Rural Residential Development	2008/4250	Controlled Action	Post-Approval	In buffer area only
Bushmead Residential Development, Hazelmere, WA	2015/7414	Controlled Action	Post-Approval	In buffer area only
East Landsdale Residential Development	2008/4676	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
East Wanneroo Cell 9 residential subdivision - Lots 50,51,52,154 & 404	2010/5772	Controlled Action	Completed	In buffer area only
Ellenbrook Reliable Water Storage Project, WA	2015/7421	Controlled Action	Post-Approval	In buffer area only
Lot 112 and Lot 114 Warbrook Road, Bullsbrook	2020/8753	Controlled Action	Further Information Request	In buffer area only
Midland Cemetery Expansion	2008/4246	Controlled Action	Completed	In buffer area only
Morley-Ellenbrook Rail Line Part 2, WA	2019/8546	Controlled Action	Post-Approval	In feature area
National Lifestyle Village, Lot 97 Adelaide Street	2009/5141	Controlled Action	Post-Approval	In buffer area only
Natural Gas Pipeline Expansion	2006/2813	Controlled Action	Post-Approval	In feature area
Nava-1 Cable System	2001/510	Controlled Action	Completed	In buffer area only
Perth-Darwin National Highway alignment (Swan Valley Section), WA	2013/7042	Controlled Action	Post-Approval	In buffer area only
Primary school, residential development and open space, Lots 9000 Bottlebrush Drive, Kiara, WA	2013/7050	Controlled Action	Post-Approval	In buffer area only
Residential Development	2013/6983	Controlled Action	Completed	In buffer area only
Residential Development 822 Youle-Dean Road, Brabham, WA	2015/7458	Controlled Action	Post-Approval	In feature area
Residential development and conservation, Lot 102 Farrall Road, Stratton, WA	2017/8066	Controlled Action	Post-Approval	In buffer area only
Residential Subdivision development	2011/6040	Controlled Action	Post-Approval	In buffer area only
Roe Highway and Great Eastern Highway Bypass Grade Separation Interchange, Hazelmere WA	2020/8784	Controlled Action	Further Information Request	In buffer area only
Roe Highway and Kalamunda Road Interchange upgrade, WA	2018/8316	Controlled Action	Post-Approval	In buffer area only
Rural Development, Lot 1983 North Ellenbrook, WA	2014/7232	Controlled Action	Further Information Request	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Sand Mining 70/915 Banksia Road, Wellard, WA	2015/7438	Controlled Action	Post-Approval	In feature area
To grade separate three intersections on Tonkin Highway, WA	2014/7385	Controlled Action	Post-Approval	In buffer area only
Upper Swan Urban Development, 25km north, north-east of Perth, WA	2017/8062	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Brabham North residential development, Brabham, WA	2018/8380	Not Controlled Action	Completed	In feature area
Cell 2 of Caversham Local Structure Plan	2012/6259	Not Controlled Action	Completed	In buffer area only
Development of 39 (Lot 3000) Hardcastle Avenue, Landsdale, WA	2017/8100	Not Controlled Action	Completed	In buffer area only
Ellenbrook Bus Rapid Transit Project, WA	2016/7732	Not Controlled Action	Completed	In feature area
Eradication of the European House Borer, Perth metropolitan area, WA	2009/5027	Not Controlled Action	Completed	In feature area
Extension of Red Hill hard rock quarry, Lot 11 Toodyay Road	2007/3433	Not Controlled Action	Completed	In buffer area only
Forrestfield Airport Link, WA	2015/7399	Not Controlled Action	Completed	In buffer area only
Gnangara Road upgrade project, city of Swan, WA	2013/6966	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In buffer area only
Landsdale Primary School Development, WA	2015/7597	Not Controlled Action	Completed	In buffer area only
Landsdale Residential Subdivision Development	2011/6027	Not Controlled Action	Completed	In buffer area only
Lot 158 Landsdale Rd, Landsdale, WA	2012/6403	Not Controlled Action	Completed	In buffer area only
Pipeline Extension, Hazelmere and Helena Valley, WA	2018/8239	Not Controlled Action	Completed	In buffer area only
Reid Highway/Malaga Drive interchange upgrade, City of Swan, WA	2013/6892	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Residential and commercial development, Lot 1981 Alexander Drive & Lot 152 Gnangara Road, Landsdale, WA	2013/6982	Not Controlled Action	Completed	In buffer area only
Residential development, Landsdale, WA	2013/6964	Not Controlled Action	Completed	In buffer area only
Residential Development, Lot 500 Park Street, Brabham, WA	2019/8472	Not Controlled Action	Completed	In buffer area only
Residential development, Lot 55 Alexander Drive, Landsdale, WA	2013/6971	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2012/6410	Not Controlled Action	Completed	In buffer area only
Residential subdivision - lot 169 Kingsway Road, Landsdale WA	2012/6412	Not Controlled Action	Completed	In buffer area only
Residential subdivision - Lots 156 and 157 Landsdale Road Landsdale WA	2012/6407	Not Controlled Action	Completed	In buffer area only
Roe Highway Noise Wall, High Wycombe, WA	2014/7149	Not Controlled Action	Completed	In buffer area only
Rural residential development Lot 9006, Jane Brook, Perth, WA	2016/7667	Not Controlled Action	Completed	In buffer area only
Sand and clay extraction, Lots 5 and 6, 1728 Great Northern Hwy, Bullsbrook, WA	2019/8415	Not Controlled Action	Completed	In buffer area only
Telstra PITC O3B Clearing Application	2011/6147	Not Controlled Action	Completed	In buffer area only
Tonkin Highway Upgrade, Guildford Road to Great Eastern Highway, WA	2019/8545	Not Controlled Action	Completed	In buffer area only
Vegetation Clearing Viticulture project	2021/9099	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Ocean Reef Road Extension Works in Wangara	2010/5388	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Rural/Residential Subdivision at Lot 502 Jane Brook Drive	2009/5261	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
		Manner)		

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

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

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

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

Please feel free to provide feedback via the Contact Us page.

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NatureMap
Mapping Western Australia's biodiversity

NatureMap Species Report

Created By Guest user on 18/02/2022

Kingdom	Animalia
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Circle'
Centre	115° 58' 24" E,31° 50' 15" S
Buffer	10km
Group By	Species Group

Species Group	Species	Records
Amphibian	14	842
Bird	217	26064
Fish	23	36
Invertebrate	163	735
Mammal	29	405
Reptile	70	639
TOTAL	**516**	**28721**

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
Amphibian					
1.	25398	*Crinia georgiana (Quacking Frog)*			
2.	25399	*Crinia glauerti (Clicking Frog)*			
3.	25400	*Crinia insignifera (Squelching Froglet)*			
4.	25401	*Crinia pseudinsignifera (Bleating Froglet)*			
5.	25408	*Heleioporus albopunctatus (Western Spotted Frog)*			
6.	25409	*Heleioporus barycragus (Hooting Frog)*			
7.	25410	*Heleioporus eyrei (Moaning Frog)*			
8.	25412	*Heleioporus psammophilus (Sand Frog)*			
9.	25415	*Limnodynastes dorsalis (Western Banjo Frog)*			
10.	25378	*Litoria adelaidensis (Slender Tree Frog)*			
11.	25388	*Litoria moorei (Motorbike Frog)*			
12.	25420	*Myobatrachus gouldii (Turtle Frog)*			
13.	25426	*Neobatrachus pelobatoides (Humming Frog)*			
14.	25433	*Pseudophryne guentheri (Crawling Toadlet)*			
Bird					
15.	24559	*Acanthagenys rufogularis (Spiny-cheeked Honeyeater)*			
16.	24260	*Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)*			
17.	24261	*Acanthiza chrysorrhoa (Yellow-rumped Thornbill)*			
18.	24262	*Acanthiza inornata (Western Thornbill)*			
19.	24560	*Acanthorhynchus superciliosus (Western Spinebill)*			
20.	25535	*Accipiter cirrocephalus (Collared Sparrowhawk)*			
21.	24281	*Accipiter cirrocephalus subsp. cirrocephalus (Collared Sparrowhawk)*			
22.	25536	*Accipiter fasciatus (Brown Goshawk)*			
23.	24283	*Accipiter fasciatus subsp. didimus (Brown Goshawk)*			
24.	24282	*Accipiter fasciatus subsp. fasciatus (Brown Goshawk)*			
25.	25751	*Acridotheres tristis (Common Myna)*	Y		
26.	25755	*Acrocephalus australis (Australian Reed Warbler)*			
27.	41323	*Actitis hypoleucos (Common Sandpiper)*		IA	
28.	24310	*Anas castanea (Chestnut Teal)*			
29.	24311	*Anas clypeata (Northern Shoveler)*			Y
30.	24312	*Anas gracilis (Grey Teal)*			
31.	24313	*Anas platyrhynchos (Mallard)*			
32.		*Anas platyrhynchos subsp. domesticus*			
33.	24315	*Anas rhynchotis (Australasian Shoveler)*			
34.	24316	*Anas superciliosa (Pacific Black Duck)*			
35.	47414	*Anhinga novaehollandiae (Australasian Darter)*			
36.	24506	*Anous tenuirostris subsp. melanops (Australian Lesser Noddy)*		T	
37.		*Anser anser*			
38.	24561	*Anthochaera carunculata (Red Wattlebird)*			
39.	24562	*Anthochaera lunulata (Western Little Wattlebird)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
40.	25670	*Anthus australis (Australian Pipit)*			
41.	25554	*Apus pacificus (Fork-tailed Swift, Pacific Swift)*		IA	
42.	24285	*Aquila audax (Wedge-tailed Eagle)*			
43.	25558	*Ardea ibis (Cattle Egret)*			
44.	25559	*Ardea intermedia (Intermediate Egret)*			
45.	41324	*Ardea modesta (great egret, white egret)*			
46.	24340	*Ardea novaehollandiae (White-faced Heron)*			
47.	24341	*Ardea pacifica (White-necked Heron)*			
48.	25566	*Artamus cinereus (Black-faced Woodswallow)*			
49.	24353	*Artamus cyanopterus (Dusky Woodswallow)*			
50.	24356	*Artamus personatus (Masked Woodswallow)*			
51.	24318	*Aythya australis (Hardhead)*			
52.		*Barnardius zonarius*			
53.	24319	*Biziura lobata (Musk Duck)*			
54.	24345	*Botaurus poiciloptilus (Australasian Bittern)*		T	
55.	24359	*Burhinus grallarius (Bush Stone-curlew)*			
56.	25713	*Cacatua galerita (Sulphur-crested Cockatoo)*			
57.	24721	*Cacatua galerita subsp. galerita (Sulphur-crested Cockatoo)*	Y		
58.	24722	*Cacatua leadbeateri (Major Mitchell's Cockatoo)*			
59.	25714	*Cacatua pastinator (Western Long-billed Corella)*			
60.	24723	*Cacatua pastinator subsp. butleri (Butler's Corella)*			
61.	24724	*Cacatua pastinator subsp. pastinator (Muir's Corella, Muir's Corella (Western Corella SW WA))*		S	
62.	25715	*Cacatua roseicapilla (Galah)*			
63.	25716	*Cacatua sanguinea (Little Corella)*			
64.	24727	*Cacatua sanguinea subsp. westralensis (Little Corella)*			
65.		*Cacatua sulphurea subsp. galerita*			Y
66.	24729	*Cacatua tenuirostris (Eastern Long-billed Corella)*	Y		
67.	25598	*Cacomantis flabelliformis (Fan-tailed Cuckoo)*			
68.	42307	*Cacomantis pallidus (Pallid Cuckoo)*			
69.	25717	*Calyptorhynchus banksii (Red-tailed Black-Cockatoo)*			
70.	24731	*Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)*		T	
71.	24733	*Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)*		T	
72.	24734	*Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)*		T	
73.	48400	*Calyptorhynchus sp. (white-tailed black cockatoo)*		T	
74.	25625	*Carduelis carduelis (Goldfinch, European Goldfinch)*	Y		
75.	24480	*Carduelis carduelis subsp. britannica (Goldfinch)*	Y		
76.	24377	*Charadrius ruficapillus (Red-capped Plover)*			
77.	24321	*Chenonetta jubata (Australian Wood Duck, Wood Duck)*			
78.	47909	*Cheramoeca leucosterna (White-backed Swallow)*			
79.		*Chroicocephalus novaehollandiae*			
80.	24431	*Chrysococcyx basalis (Horsfield's Bronze Cuckoo)*			
81.	24432	*Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)*			
82.	24288	*Circus approximans (Swamp Harrier)*			
83.	24289	*Circus assimilis (Spotted Harrier)*			
84.	25675	*Colluricincla harmonica (Grey Shrike-thrush)*			
85.	24399	*Columba livia (Domestic Pigeon)*	Y		
86.	25568	*Coracina novaehollandiae (Black-faced Cuckoo-shrike)*			
87.	24416	*Corvus bennetti (Little Crow)*			
88.	25592	*Corvus coronoides (Australian Raven)*			
89.	24420	*Cracticus nigrogularis (Pied Butcherbird)*			
90.	25595	*Cracticus tibicen (Australian Magpie)*			
91.	24422	*Cracticus tibicen subsp. dorsalis (White-backed Magpie)*			
92.	25596	*Cracticus torquatus (Grey Butcherbird)*			
93.		*Cyanorhamphus auriceps*			Y
94.	24322	*Cygnus atratus (Black Swan)*			
95.	24323	*Cygnus olor (Mute Swan)*	Y		
96.	30901	*Dacelo novaeguineae (Laughing Kookaburra)*	Y		
97.	30902	*Dacelo novaeguineae subsp. novaeguineae (Laughing Kookaburra)*	Y		
98.	25673	*Daphoenositta chrysoptera (Varied Sittella)*			
99.	24606	*Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella)*			
100.	24325	*Dendrocygna eytoni (Plumed Whistling Duck)*			
101.	25607	*Dicaeum hirundinaceum (Mistletoebird)*			
102.	24470	*Dromaius novaehollandiae (Emu)*			
103.		*Egretta garzetta*			
104.		*Egretta novaehollandiae*			
105.		*Elanus axillaris*			
106.	24290	*Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
107.	47937	*Elseyornis melanops (Black-fronted Dotterel)*			
108.		*Eolophus roseicapillus*			
109.	24567	*Epthianura albifrons (White-fronted Chat)*			
110.	24570	*Epthianura tricolor (Crimson Chat)*			
111.	24379	*Erythrogonys cinctus (Red-kneed Dotterel)*			
112.	24368	*Eurostopodus argus (Spotted Nightjar)*			
113.	25621	*Falco berigora (Brown Falcon)*			
114.	24471	*Falco berigora subsp. berigora (Brown Falcon)*			
115.	25622	*Falco cenchroides (Australian Kestrel, Nankeen Kestrel)*			
116.	24472	*Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)*			
117.	25623	*Falco longipennis (Australian Hobby)*			
118.	24474	*Falco longipennis subsp. longipennis (Australian Hobby)*			
119.	25624	*Falco peregrinus (Peregrine Falcon)*		S	
120.	25727	*Fulica atra (Eurasian Coot)*			
121.	24761	*Fulica atra subsp. australis (Eurasian Coot)*			
122.	25729	*Gallinula tenebrosa (Dusky Moorhen)*			
123.	24763	*Gallinula tenebrosa subsp. tenebrosa (Dusky Moorhen)*			
124.	25730	*Gallirallus philippensis (Buff-banded Rail)*			
125.	42314	*Gavicalis virescens (Singing Honeyeater)*			
126.	24401	*Geopelia cuneata (Diamond Dove)*			
127.	25530	*Gerygone fusca (Western Gerygone)*			
128.	47962	*Glyciphila melanops (Tawny-crowned Honeyeater)*			
129.		*Gracula religiosa*			
130.	24443	*Grallina cyanoleuca (Magpie-lark)*			
131.	24293	*Haliaeetus leucogaster (White-bellied Sea-Eagle)*			
132.	24295	*Haliastur sphenurus (Whistling Kite)*			
133.	24689	*Halobaena caerulea (Blue Petrel)*			
134.	24296	*Hamirostra isura (Square-tailed Kite)*			
135.	47965	*Hieraaetus morphnoides (Little Eagle)*			
136.	25734	*Himantopus himantopus (Black-winged Stilt)*			
137.	24491	*Hirundo neoxena (Welcome Swallow)*			
138.	48587	*Hydroprogne caspia (Caspian Tern)*		IA	
139.	24347	*Ixobrychus flavicollis subsp. australis (Black Bittern (southwest subpop.), Australian Black Bittern)*		P2	
140.	24511	*Larus novaehollandiae subsp. novaehollandiae (Silver Gull)*			
141.	25659	*Lichenostomus leucotis (White-eared Honeyeater)*			
142.	25661	*Lichmera indistincta (Brown Honeyeater)*			
143.	24582	*Lichmera indistincta subsp. indistincta (Brown Honeyeater)*			
144.		*Lophoictinia isura*			
145.	24326	*Malacorhynchus membranaceus (Pink-eared Duck)*			
146.	25651	*Malurus lamberti (Variegated Fairy-wren)*			
147.	25652	*Malurus leucopterus (White-winged Fairy-wren)*			
148.	25654	*Malurus splendens (Splendid Fairy-wren)*			
149.	24552	*Malurus splendens subsp. splendens (Splendid Fairy-wren)*			
150.	24583	*Manorina flavigula (Yellow-throated Miner)*			
151.	25758	*Megalurus gramineus (Little Grassbird)*			
152.	47997	*Melanodryas cucullata (Hooded Robin)*			
153.	25663	*Melithreptus brevirostris (Brown-headed Honeyeater)*			
154.	24598	*Merops ornatus (Rainbow Bee-eater)*			
155.		*Microcarbo melanoleucos*			
156.	25693	*Microeca fascinans (Jacky Winter)*			
157.	25610	*Myiagra inquieta (Restless Flycatcher)*			
158.	24738	*Neophema elegans (Elegant Parrot)*			
159.	25564	*Nycticorax caledonicus (Rufous Night Heron)*			
160.	24742	*Nymphicus hollandicus (Cockatiel)*			
161.	24407	*Ocyphaps lophotes (Crested Pigeon)*			
162.	24328	*Oxyura australis (Blue-billed Duck)*		P4	
163.	25680	*Pachycephala rufiventris (Rufous Whistler)*			
164.	24693	*Pachyptila desolata (Antarctic Prion)*			
165.	48591	*Pandion cristatus (Osprey, Eastern Osprey)*		IA	
166.	25681	*Pardalotus punctatus (Spotted Pardalote)*			
167.	24625	*Pardalotus punctatus subsp. punctatus (Spotted Pardalote)*			
168.	25682	*Pardalotus striatus (Striated Pardalote)*			
169.	24630	*Pardalotus striatus subsp. westraliensis (Striated Pardalote)*			
170.	24648	*Pelecanus conspicillatus (Australian Pelican)*			
171.	48060	*Petrochelidon ariel (Fairy Martin)*			
172.	48061	*Petrochelidon nigricans (Tree Martin)*			
173.	48066	*Petroica boodang (Scarlet Robin)*			
174.	24659	*Petroica goodenovii (Red-capped Robin)*			
175.	25697	*Phalacrocorax carbo (Great Cormorant)*			

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176.	25698	*Phalacrocorax melanoleucos (Little Pied Cormorant)*			
177.	24667	*Phalacrocorax sulcirostris (Little Black Cormorant)*			
178.	25699	*Phalacrocorax varius (Pied Cormorant)*			
179.	24409	*Phaps chalcoptera (Common Bronzewing)*			
180.	25587	*Phaps elegans (Brush Bronzewing)*			
181.	48071	*Phylidonyris niger (White-cheeked Honeyeater)*			
182.	24596	*Phylidonyris novaehollandiae (New Holland Honeyeater)*			
183.	24841	*Platalea flavipes (Yellow-billed Spoonbill)*			
184.	25720	*Platycercus icterotis (Western Rosella)*			
185.	24747	*Platycercus spurius (Red-capped Parrot)*			
186.	25721	*Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)*			
187.	24843	*Plegadis falcinellus (Glossy Ibis)*		IA	
188.	25703	*Podargus strigoides (Tawny Frogmouth)*			
189.	24679	*Podargus strigoides subsp. brachypterus (Tawny Frogmouth)*			
190.	25704	*Podiceps cristatus (Great Crested Grebe)*			
191.	24680	*Podiceps cristatus subsp. australis (Great Crested Grebe)*			
192.	24681	*Poliocephalus poliocephalus (Hoary-headed Grebe)*			
193.	25722	*Polytelis anthopeplus (Regent Parrot)*			
194.	25731	*Porphyrio porphyrio (Purple Swamphen)*			
195.	24767	*Porphyrio porphyrio subsp. bellus (Purple Swamphen)*			
196.	24769	*Porzana fluminea (Australian Spotted Crake)*			
197.	25732	*Porzana pusilla (Baillon's Crake)*			
198.	24771	*Porzana tabuensis (Spotless Crake)*			
199.	24703	*Pterodroma lessonii (White-headed Petrel)*			
200.	42344	*Purnella albifrons (White-fronted Honeyeater)*			
201.		*Purpureicephalus spurius*			
202.	24776	*Recurvirostra novaehollandiae (Red-necked Avocet)*			
203.	48096	*Rhipidura albiscapa (Grey Fantail)*			
204.	25614	*Rhipidura leucophrys (Willie Wagtail)*			
205.	25534	*Sericornis frontalis (White-browed Scrubwren)*			
206.	30948	*Smicrornis brevirostris (Weebill)*			
207.	24645	*Stagonopleura oculata (Red-eared Firetail)*			
208.	24525	*Sterna fuscata subsp. nubilosa (Sooty Tern)*			
209.	24329	*Stictonetta naevosa (Freckled Duck)*			
210.	25597	*Strepera versicolor (Grey Currawong)*			
211.	25589	*Streptopelia chinensis (Spotted Turtle-Dove)*	Y		
212.	30951	*Streptopelia chinensis subsp. tigrina (Spotted Turtle-Dove)*	Y		
213.	25590	*Streptopelia senegalensis (Laughing Turtle-Dove)*	Y		
214.	25705	*Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)*			
215.	24682	*Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe)*			
216.	24331	*Tadorna tadornoides (Australian Shelduck, Mountain Duck)*			
217.	48597	*Thalasseus bergii (Crested Tern)*		IA	
218.	24845	*Threskiornis spinicollis (Straw-necked Ibis)*			
219.	25549	*Todiramphus sanctus (Sacred Kingfisher)*			
220.	24309	*Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)*			
221.	48141	*Tribonyx ventralis (Black-tailed Native-hen)*			
222.		*Trichoglossus chlorolepidotus*			
223.	25723	*Trichoglossus haematodus (Rainbow Lorikeet)*			
224.	24755	*Trichoglossus haematodus subsp. moluccanus (Rainbow Lorikeet)*	Y		
225.	24754	*Trichoglossus haematodus subsp. rubritorquis (Red-collared Lorikeet)*			
226.	24806	*Tringa glareola (Wood Sandpiper)*		IA	
227.	24808	*Tringa nebularia (Common Greenshank, greenshank)*		IA	
228.	48147	*Turnix varius (Painted Button-quail)*			
229.	24852	*Tyto alba subsp. delicatula (Barn Owl)*			
230.	24386	*Vanellus tricolor (Banded Lapwing)*			
231.	25765	*Zosterops lateralis (Grey-breasted White-eye, Silvereye)*			

Fish

232.		*Acanthaluteres brownii*			
233.		*Acentrogobius bifrenatus*			
234.		*Aldrichetta forsteri*			
235.		*Amniataba caudavittata*			
236.		*Atherinosoma wallacei*			
237.		*Carcharhinus leucas*			
238.		*Cnidoglanis macrocephalus*			
239.		*Engraulis australis*			
240.		*Favonigobius sp.*			
241.	34028	*Galaxias occidentalis (Western Minnow)*			
242.	34027	*Galaxiella nigrostriata (Black-stripe Minnow, black-striped dwarf galaxias)*		T	
243.	34030	*Geotria australis (Pouched Lamprey)*			

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				P3	
244.		*Gerres subfasciatus*			
245.		*Gonorynchus greyi*			
246.		*Monacanthus chinensis*			
247.		*Mugil cephalus*			
248.		*Nannoperca vittata*			
249.		*Neatypus obliquus*			
250.		*Platycephalus indicus*			
251.		*Rhabdosargus sarba*			
252.		*Scobinichthys granulatus*			
253.		*Tridentiger trigonocephalus*			
254.		*Urocampus carinirostris*			
Invertebrate					
255.		*Acariformes sp.*			
256.		*Akamptogonus novarae*			
257.		*Allothereua maculata*			
258.		*Amblyomma triguttatum*			
259.		*Aname mainae*			
260.		*Aname tepperi*			
261.		*Ancylidae sp.*			
262.		*Arachnura higginsi*			
263.		*Araneus senicaudatus*			
264.		*Argiope protensa*			
265.		*Argiope trifasciata*			
266.		*Artoria linnaei*			
267.		*Artoriopsis expolita*			
268.		*Asadipus kunderang*			
269.		*Austracantha minax*			
270.		*Australomimetus auriculatus*			
271.	48574	*Australotomurus morbidus (cemetery springtail, Guildford springtail)*		P3	
272.		*Austrogomphus (Zephyrogomphus) lateralis*			
273.		*Backobourkia brounii*			
274.		*Backobourkia heroine*			
275.		*Badumna insignis*			
276.		*Baetidae sp.*			
277.		*Ballarra longipalpus*			
278.		*Bigenditia zuytdorp*			
279.		*Brentidae sp.*			
280.		*Caenidae sp.*			
281.		*Carabidae sp.*			
282.		*Ceinidae sp.*			
283.		*Celaenia excavata*			
284.		*Ceratopogonidae sp.*			
285.		*Cercophonius sulcatus*			
286.		*Cethegus fugax*			
287.	33939	*Cherax cainii (Marron)*			
288.		*Cherax destructor*			
289.		*Cherax quinquecarinatus*			
290.		*Cherax sp.*			
291.		*Chironominae sp.*			
292.		*Cladocera (unident.)*			
293.		*Clinohelea sp. 1 (SAP)*			
294.		*Corduliidae sp.*			
295.		*Corixidae sp.*			
296.		*Cormocephalus aurantiipes*			
297.		*Cormocephalus turneri*			
298.		*Culicidae sp.*			
299.		*Curculionidae sp.*			
300.		*Cyrtophora parnasia*			
301.		*Dingosa serrata*			
302.		*Dinocambala ingens*			
303.		*Dolichopodidae sp.*			
304.		*Dugesiidae sp.*			
305.		*Dytiscidae sp.*			
306.		*Ecnomina F group*			
307.		*Erigone prominens*			
308.		*Eriophora biapicata*			
309.		*Eupograpta kottae*			
310.		*Glossiphoniidae sp.*			
311.		*Gomphidae sp.*			

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312.		*Gripopterygidae sp.*			
313.		*Gyrinidae sp.*			
314.		*Harpacticoida sp*			
315.		*Hemicloea sublimbata*			
316.		*Hemicordulia tau*			
317.		*Hemicorduliidae sp.*			
318.		*Hogna crispipes*			
319.		*Hogna kuyani*			
320.		*Holasteron perth*			
321.		*Holconia westralia*			
322.		*Holocnemus pluchei*			
323.		*Hydrophilidae sp.*			
324.		*Hydroptilidae sp.*			
325.		*Hypoblemum sp.*			Y
326.		*Idiommata blackwalli*			
327.	48935	*Idiosoma sigillatum (Swan Coastal Plain shield-backed trapdoor spider)*		P3	
328.		*Isometroides vescus*			
329.		*Isopeda leishmanni*			
330.		*Isopeda magna*			
331.		*Isopedella cana*			
332.		*Isopedella tindalei*			
333.		*Lampona cylindrata*			
334.		*Lampona yanchep*			
335.		*Lamponella ainslie*			
336.		*Latrodectus hasselti*			
337.		*Latrodectus hasseltii*			
338.		*Lepidoptera sp.*			
339.		*Leptoceridae sp.*			
340.		*Leptophlebiidae sp.*			
341.		*Libellulidae sp.*			
342.		*Limnochares australica*			
343.		*Lycosa ariadnae*			
344.		*Lycosa godeffroyi*			
345.		*Lymnaeidae sp.*			
346.		*Maratus pavonis*			
347.		*Maratus spicatus*			
348.		*Masasteron mas*			
349.		*Microvelia sp.*			
350.		*Missulena granulosa*			
351.		*Missulena occatoria*			
352.		*Mituliodon tarantulinus*			
353.		*Monohelea sp. 4 (SAP)*			
354.		*Myandra bicincta*			
355.		*Nematoda sp.*			
356.		*Nephila edulis*			
357.		*Nicodamus mainae*			
358.		*Notiasemus glauerti*			
359.		*Notsodipus muckera*			
360.		*Occiperipatoides gilesii*			
361.		*Oecobius navus*			
362.		*Oligochaeta sp.*			
363.		*Ommatoiulus moreleti*			
364.		*Oniscidae sp.*			
365.		*Opopaea sp.*			Y
366.		*Orthocladiinae SO3 sp. A (SAP)*			
367.		*Orthocladiinae sp.*			
368.		*Ostracoda (unident.)*			
369.		*Oxyethira sp.*			
370.		*Paracyclops sp.*			
371.		*Paralampona marangaroo*			
372.		*Paralimnophyes pullulus (V42)*			
373.		*Paramelitidae sp.*			
374.		*Pentasteron securifer*			
375.		*Pholcus phalangioides*			
376.		*Physidae sp.*			
377.		*Pinkfloydia harveii*			
378.		*Planorbidae sp.*			
379.		*Procladius paludicola*			
380.		*Raveniella cirrata*			
381.		*Raveniella peckorum*			

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382.		*Richardsonianidae sp.*			
383.		*Rotifera sp.*			
384.		*Sandalodes superbus*			
385.		*Scirtidae sp.*			
386.		*Scolopendra laeta*			
387.		*Scytodes thoracica*			
388.		*Servaea melaina*			
389.		*Simuliidae sp.*			
390.		*Smeringopus natalensis*			
391.		*Smeringopus natalensis?*			Y
392.		*Steatoda capensis*			
393.		*Steatoda grossa*			
394.		*Sternopriscus sp.*			
395.		*Stratiomyidae sp.*			
396.		*Styloniscidae sp.*			
397.		*Supunna funerea*			
398.		*Supunna picta*			
399.	33992	*Synemon gratiosa (Graceful Sunmoth)*		P4	
400.		*Synothele durokoppin*			
401.		*Synothele michaelseni*			
402.		*Tabanidae sp.*			
403.		*Talitridae sp.*			
404.		*Tamopsis perthensis*			
405.		*Tanypodinae sp.*			
406.		*Tanytarsus barbitarsis*			
407.		*Tasmanicosa leuckartii*			
408.		*Tetragnatha luteocincta*			Y
409.		*Tipulidae sp.*			
410.		*Urodacus armatus*			
411.		*Urodacus novaehollandiae*			
412.		*Urodacus planimanus*			
413.		*Venator immansueta*			
414.		*Venatrix pullastra*			
415.	34113	*Westralunio carteri (Carter's Freshwater Mussel)*		T	
416.		*Westrarchaea spinosa*			
417.		*unknown unknown*			Y
Mammal					
418.	47713	*Austronomus australis (White-striped Free-tailed Bat)*			
419.	25452	*Bettongia penicillata (Woylie, Brush-tailed Bettong)*		T	
420.	24162	*Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong)*		T	
421.	24251	*Bos taurus (European Cattle)*	Y		
422.	24086	*Cercartetus concinnus (Western Pygmy-possum, Mundarda)*			
423.	24186	*Chalinolobus gouldii (Gould's Wattled Bat)*			
424.	24092	*Dasyurus geoffroii (Chuditch, Western Quoll)*		T	
425.	24258	*Equus caballus (Horse)*	Y		
426.	24189	*Falsistrellus mackenziei (Western False Pipistrelle, Western Falsistrelle)*		P4	
427.	24041	*Felis catus (Cat)*	Y		
428.	24215	*Hydromys chrysogaster (Water-rat, Rakali)*		P4	
429.	48588	*Isoodon fusciventer (Quenda, southwestern brown bandicoot)*		P4	
430.	24132	*Macropus fuliginosus (Western Grey Kangaroo)*			
431.	24135	*Macropus robustus subsp. erubescens (Euro, Biggada)*			
432.	24168	*Macrotis lagotis (Bilby, Dalgyte, Ninu)*		T	
433.	24223	*Mus musculus (House Mouse)*	Y		
434.	48022	*Notamacropus irma (Western Brush Wallaby)*		P4	
435.	24085	*Oryctolagus cuniculus (Rabbit)*	Y		
436.	34016	*Ovis aries (Sheep)*			
437.	24166	*Pseudocheirus occidentalis (Western Ringtail Possum, ngwayir)*		T	
438.	24230	*Pseudomys albocinereus (Ash-grey Mouse)*			
439.	24243	*Rattus fuscipes (Western Bush Rat)*			
440.	24245	*Rattus rattus (Black Rat)*	Y		
441.	24207	*Tachyglossus aculeatus (Short-beaked Echidna)*			
442.	24167	*Tarsipes rostratus (Honey Possum, Noolbenger)*			
443.	25521	*Trichosurus vulpecula (Common Brushtail Possum)*			
444.	24158	*Trichosurus vulpecula subsp. vulpecula (Common Brushtail Possum)*			
445.	24206	*Vespadelus regulus (Southern Forest Bat)*			
446.	24040	*Vulpes vulpes (Red Fox)*	Y		
Reptile					
447.	42368	*Acritoscincus trilineatus (Western Three-lined Skink)*			
448.	44629	*Anilios australis*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
449.	25319	*Antaresia stimsoni subsp. orientalis (Stimson's Python)*			
450.	25241	*Antaresia stimsoni subsp. stimsoni (Stimson's Python)*			
451.	24990	*Aprasia pulchella (Granite Worm-lizard)*			
452.	24991	*Aprasia repens (Sand-plain Worm-lizard)*			
453.	42380	*Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake)*			
454.	42381	*Brachyurophis semifasciatus (Southern Shovel-nosed Snake)*			
455.	43380	*Chelodina colliei (South-western Snake-necked Turtle)*			
456.	24980	*Christinus marmoratus (Marbled Gecko)*			
457.	25456	*Crenadactylus ocellatus (Clawless Gecko)*			
458.	24918	*Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)*			
459.	30893	*Cryptoblepharus buchananii*			
460.	25020	*Cryptoblepharus plagiocephalus*			
461.	30899	*Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)*			
462.	24883	*Ctenophorus ornatus (Ornate Crevice-Dragon)*			
463.	25027	*Ctenotus australis*			
464.	25039	*Ctenotus fallens*			
465.	25040	*Ctenotus gemmula (Jewelled South-west Ctenotus (Swan Coastal Plain subpop P3), skink)*			
466.	25047	*Ctenotus impar*			
467.	25049	*Ctenotus labillardieri*			
468.	25766	*Delma fraseri (Fraser's Legless Lizard)*			
469.	24999	*Delma grayii*			
470.	25296	*Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)*			
471.	25469	*Diplodactylus granariensis*			
472.	24929	*Diplodactylus granariensis subsp. granariensis*			
473.	44654	*Diplodactylus lateroides (Speckled Stone Gecko)*			
474.	24939	*Diplodactylus polyophthalmus*			
475.	25251	*Echiopsis curta (Bardick)*			
476.	25096	*Egernia kingii (King's Skink)*			
477.	25100	*Egernia napoleonis*			
478.	25250	*Elapognathus coronatus (Crowned Snake)*			
479.	24959	*Gehyra variegata*			
480.	25474	*Hemiergis initialis*			
481.	25115	*Hemiergis initialis subsp. initialis*			
482.	25475	*Hemiergis peronii*			
483.	25119	*Hemiergis quadrilineata*			
484.	25133	*Lerista elegans*			
485.	25165	*Lerista praepedita*			
486.	25005	*Lialis burtonis*			
487.	25184	*Menetia greyii*			
488.	25240	*Morelia spilota subsp. imbricata (Carpet Python)*			
489.	25191	*Morethia lineoocellata*			
490.	25192	*Morethia obscura*			
491.	25248	*Neelaps bimaculatus (Black-naped Snake)*			
492.	25249	*Neelaps calonotos (Black-striped Snake, black-striped burrowing snake)*		P3	
493.	25252	*Notechis scutatus (Tiger Snake)*			
494.	25253	*Parasuta gouldii*			
495.	25255	*Parasuta nigriceps*			
496.	25007	*Pletholax gracilis subsp. gracilis (Keeled Legless Lizard)*			
497.	25510	*Pogona minor (Dwarf Bearded Dragon)*			
498.	24907	*Pogona minor subsp. minor (Dwarf Bearded Dragon)*			
499.	25261	*Pseudechis australis (Mulga Snake)*			
500.	25345	*Pseudemydura umbrina (Western Swamp Tortoise, Western Swamp Turtle)*		T	
501.	25511	*Pseudonaja affinis (Dugite)*			
502.	25259	*Pseudonaja affinis subsp. affinis (Dugite)*			
503.	42416	*Pseudonaja mengdeni (Western Brown Snake)*			
504.	25263	*Pseudonaja modesta (Ringed Brown Snake)*			
505.	25266	*Simoselaps bertholdi (Jan's Banded Snake)*			
506.	25518	*Strophurus spinigerus*			
507.	24943	*Strophurus spinigerus subsp. inornatus*			
508.	24942	*Strophurus spinigerus subsp. spinigerus*			
509.	25203	*Tiliqua occipitalis (Western Bluetongue)*			
510.	25519	*Tiliqua rugosa*			
511.	25204	*Tiliqua rugosa subsp. aspera*			
512.	25207	*Tiliqua rugosa subsp. rugosa*			
513.	24983	*Underwoodisaurus milii (Barking Gecko)*			
514.	25218	*Varanus gouldii (Bungarra or Sand Monitor)*			
515.	25225	*Varanus rosenbergi (Heath Monitor)*			
516.	25526	*Varanus tristis (Racehorse Monitor)*			

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

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.

Appendix C

Black Cockatoo Foraging Plants

		Foraging category as assigned by Emerge			
Species name	**Common name**	**CBC**	**BBC**	**FRTBC**	**Literature references**
Acacia baileyana	Cootamundra wattle	Secondary	-	-	Groom 2011
Acacia pentadenia	Karri wattle	Secondary	-	-	Groom 2011
Acacia saligna	Orange wattle	Secondary	-	-	Groom 2011
Agonis flexuosa	Peppermint tree	Secondary	-	-	Groom 2011
Allocasuarina fraseriana	Sheoak	-	Secondary	Secondary	Johnstone & Storr 1998; Johnstone et al. 2010; Johnstone 2017; DoEE 2017
Allocasuarina spp.		Secondary	-	Secondary	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017
Anigozanthos flavidus	Tall kangaroo paw	-	Secondary	-	Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017
Araucaria heterophylla	Norfolk island pine	Secondary	-	-	Groom 2011; DoEE 2017
Banksia ashbyi	Ashby's banksia	Primary	Secondary	-	Saunders 1980; Groom 2011; DoEE 2017
Banksia attenuata	Slender banksia	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia baxteri	Baxter's banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia carlinoides	Pink dryandra	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia coccinea	Scarlet banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia dallanneyi	Couch honeypot dryandra	Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia ericifolia	Heath-leaved banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia fraseri		Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia gardneri	Prostrate banksia	Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia grandis	Bull banksia	Primary	Secondary	-	Saunders 1980; Johnstone & Storr 1998; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia hookeriana	Hooker's banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia ilicifolia	Holly banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; Johnstone & Storr 1998; DoEE 2017
Banksia kippistiana		Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia leptophylla		Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia lindleyana	Porcupine banksia	Primary	Secondary	-	Johnstone et al. 2010; DoEE 2017

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Banksia littoralis	Swamp banksia	Primary	Secondary	-	Saunders 1980; Groom 2011Johnstone & Storr 1998; Johnstone et al. 2010; DoEE 2017
Banksia menziesii	Firewood banksia	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia mucronulata	Swordfish dryandra	Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia nivea	Honeypot dryandra	Primary	Secondary	-	Saunders 1980; Groom 2011; DoEE 2017
Banksia nobilis	Golden dryandra	Primary	Secondary	-	Saunders 1980; Groom 2011; DoEE 2017
Banksia praemorsa	Cut-leaf banksia	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia prionotes	Acorn banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia prolata		Primary	Secondary	-	Johnstone et al. 2010; DoEE 2017
Banksia quercifolia	Oak-leaved banksia	Primary	Secondary	-	Johnstone & Storr 1998; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia sessilis	Parrot bush	Primary	Secondary	-	Saunders 1980; Johnstone & Storr 1998; Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia speciosa	Showy banksia	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia spp.		Primary	Secondary	-	Saunders 1979; DSEWPaC 2012; DoEE 2017
Banksia squarrosa	Pingle	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; DoEE 2017
Banksia tricuspis	Pine banksia	Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia undata	Urchin dryandra	Primary	Secondary	-	Groom 2011; DoEE 2017
Banksia verticillata	Granite banksia	Primary	Secondary	-	Saunders 1980; Groom 2011; DoEE 2017
Brassica campestris	Canola	Secondary	-	-	Groom 2011; DoEE 2017
Callistemon spp.		Secondary	Secondary	-	Johnstone et al. 2010; DoEE 2017
Callistemon viminalis	Captain cook bottlebrush	Secondary	-	-	Groom 2011
Callitris sp.		Secondary	-	-	Johnstone et al. 2010; Groom 2011
Carya illnoinensis	Pecan	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011; Groom 2014; DoEE 2017
Casuarina cunninghamiana	River sheoak	Secondary	-	-	Groom 2011
Citrullus lanatus	Pie or afghan melon	Secondary	-	-	Johnstone et al. 2010; Groom 2011

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Corymbia calophylla	Marri	Primary	Primary	Primary	Johnstone & Storr 1998; Johnstone & Kirkby 1999; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017; Johnstone 2017; Saunders 1979; Johnstone & Kirkby 2008
Corymbia citriodora	Lemon scented gum	Secondary	Secondary	Secondary	Johnstone et al. 2010; DSEWPaC 2012; Groom 2011; Johnstone 2017
Corymbia ficifolia	Red flowering gum	Secondary	-	-	Groom 2011
Corymbia haematoxylon	Mountain marri	Secondary	-	Secondary	Groom 2011; DoEE 2012; DoEE 2017
Corymbia maculata	Spotted gum	-	-	-	-
Darwinia citriodora	Lemon-scented darwinia	Secondary	Secondary	-	Groom 2011; Johnstone et al. 2010
Diospryros sp.	Sweet persimmon	Secondary	Secondary	-	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017
Eremophila glabra	Tarbush	Secondary	-	-	Groom 2011
Erodium aureum		Secondary	-	-	Groom 2011
Erodium botrys	Long storksbill	Secondary	Secondary	-	Groom 2011; Johnstone & Storr 1998; Johnstone et al. 2010
Erodium spp.		Secondary	Secondary	-	Johnstone et al. 2010; DoEE 2017
Eucalyptus caesia	Silver princess	Secondary	-	Secondary	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017; Johnstone 2017
Eucalyptus camaldulensis	River red gum	-	-	Secondary	DoEE 2012; DoEE 2017
Eucalyptus decipiens	Red heart/moit	-	-	Secondary	Johnstone 2017
Eucalyptus diversicolor	Karri	-	-	Primary	Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017; Johnstone & Storr 1998
Eucalyptus erythrocorys	Illyarrie	Secondary	-	Secondary	DSEWPaC 2012; DoEE 2017; Johnstone 2017, Johnstone et al. 2010
Eucalyptus gomphocephala	Tuart	Secondary	-	Secondary	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017
Eucalyptus grandis	Flooded gum, rose gum	-	-	Secondary	DoEE 2012; DoEE 2017
Eucalyptus lehmannii	Bushy yate	-	-	Secondary	Johnstone 2017
Eucalyptus leucoxylon	Yellow gum	Secondary	-	-	Groom 2014

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Eucalyptus loxophleba	York gum	Secondary	-	-	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017
Eucalyptus marginata	Jarrah	Primary	Secondary	Primary	Saunders 1980; Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017; Johnstone & Storr 1998; Johnstone & Kirkby 1999; Johnstone 2017
Eucalyptus patens	Blackbutt	Primary	-	Primary	Johnstone & Storr 1998; Johnstone & Kirkby 1999; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017; Johnstone 2017; Groom 2011
Eucalyptus pleurocarpa	Tallerack	Secondary	-	-	Groom 2011
Eucalyptus preissiana	Bell-fruited mallee	Secondary	-	-	Groom 2011
Eucalyptus robusta	Swamp mahogany	Secondary	-	-	Johnstone et al. 2010; Groom 2011
Eucalyptus salmonophloia	Salmon gum	Primary	-	-	Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DSEWPaC 2012; DoEE 2017
Eucalyptus staeri	Albany blackbutt	-	-	Secondary	Johnstone & Storr 1998
Eucalyptus todtiana	Coastal blackbutt	Secondary	-	-	Saunders 1980; Johnstone et al. 2010; Groom 2011; Johnstone & Kirkby 2008
Eucalyptus wandoo	Wandoo	Primary	Secondary	Primary	Saunders 1980; Johnstone et al. 2010; Groom 2011; DSEWPaC 2012; DoEE 2017
Ficus sp.	Fig	Secondary	-	-	Groom 2011
Grevillea armigera	Prickly toothbrushes	Primary	-	-	Groom 2011
Grevillea bipinnatifida	Fuschia grevillea	Primary	-	-	Groom 2011
Grevillea hookeriana	Red toothbrushes	Primary	-	-	Groom 2011
Grevillea hookeriana subsp. api	Black toothbrushes	Primary	-	-	Groom 2011
Grevillea paniculata	Kerosene bush	Primary	-	-	Groom 2011
Grevillea paradoxa	Bottlebrush grevillea	Primary	-	-	Groom 2011
Grevillea petrophiloides	Pink poker	Primary	-	-	Groom 2011
Grevillea robusta	Silky oak	Primary	-	-	Johnstone et al. 2010; Groom 2011

		Foraging category as assigned by Emerge			
Species name	**Common name**	**CBC**	**BBC**	**FRTBC**	**Literature references**
Grevillea spp.		Primary	-	-	Saunders 1979; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017
Grevillea wilsonii	Native fuchsia	-	Secondary	-	Johnstone et al. 2010
Hakea auriculata		Primary	-	-	Saunders 1980; Groom 2011
Hakea candolleana		Primary	-	-	Groom 2011
Hakea circumalata	Coastal hakea	Primary	-	-	Groom 2011
Hakea commutata		Primary	-	-	Groom 2011
Hakea conchifolia	Shell-leaved hakea	Primary	-	-	Groom 2011
Hakea costata	Ribbed hakea	Primary	-	-	Groom 2011
Hakea cristata	Snail hakea	Primary	Secondary	-	Groom 2011; Johnstone et al. 2010
Hakea cucullata	Snail hakea	Primary	-	-	Groom 2011
Hakea cyclocarpa	Ramshorn	Primary	-	-	Saunders 1980; Groom 2011
Hakea eneabba		Primary	-	-	Groom 2011
Hakea erinacea	Hedgehog hakea	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011
Hakea falcata	Sickle hakea	Primary	-	-	Groom 2011
Hakea flabellifolia	Fan-leaved hakea	Primary	-	-	Groom 2011
Hakea gilbertii		Primary	-	-	Saunders 1980; Groom 2011
Hakea incrassata	Golfball or marble hakea	Primary	-	-	Johnstone et al. 2010; Groom 2011
Hakea lasiantha	Woolly flowered hakea	Primary	-	-	Johnstone et al. 2010; Groom 2011
Hakea lasianthoides		Primary	Secondary	-	Johnstone et al. 2010; Groom 2011
Hakea laurina	Pin-cushion hakea	Primary	-	-	Johnstone et al. 2010; Groom 2011
Hakea lissocarpha	Honeybush	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011
Hakea marginata		-	Secondary	-	Johnstone et al. 2010
Hakea megalosperma	Lesueur hakea	Primary	-	-	Groom 2011
Hakea multilineata	Grass leaf hakea	Primary	-	-	Groom 2011
Hakea neospathulata		Primary	-	-	Groom 2011
Hakea obliqua	Needles and corks	Primary	-	-	Saunders 1980; Groom 2011
Hakea oleifolia	Dungyn	Primary	-	-	Groom 2011

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Hakea pandanicarpa subsp. crassifolia	Thick-leaved hakea	Primary	-	-	Groom 2011
Hakea petiolaris	Sea urchin hakea	Primary	-	-	Groom 2011
Hakea polyanthema		Primary	-	-	Groom 2011
Hakea preissii	Needle tree	Primary	-	-	Groom 2011
Hakea prostrata	Harsh hakea	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011
Hakea psilorrhyncha		Primary	-	-	Groom 2011
Hakea ruscifolia	Candle hakea	Primary	Secondary	-	Saunders 1980; Groom 2011; Johnstone et al. 2010
Hakea scoparia	Kangaroo bush	Primary	-	-	Groom 2011
Hakea smilacifolia		Primary	-	-	Groom 2011
Hakea spp.		Primary	Secondary	-	Saunders 1979; DSEWPaC 2012; DoEE 2017
Hakea stenocarpa	Narrow-fruited hakea	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011
Hakea sulcata	Furrowed hakea	Primary	-	-	Groom 2011
Hakea trifurcata	Two-leaved hakea	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011
Hakea undulata	Wavy-leaved hakea	Primary	Secondary	-	Saunders 1980; Johnstone et al. 2010; Groom 2011
Hakea varia	Variable-leaved hakea	Primary	Secondary	-	Saunders 1980; Groom 2011
Harpephyllum caffrum	Kaffir plum	-	-	Secondary	Johnstone 2017
Helianthus annuus	Sunflower	Secondary	-	-	Johnstone et al. 2010; Groom 2011
Hibiscus sp.	Hibiscus	Secondary	-	-	Groom 2011
Isopogon scabriusculus		Secondary	-	-	Groom 2011
Jacaranda mimosifolia	Jacaranda	Secondary	Secondary	-	Johnstone et al. 2010; Groom 2011
Jacksonia furcellata	Grey stinkwood	Secondary	-	-	Groom 2011
Kingia australis	Kingia	-	Secondary	-	Johnstone et al. 2010
Lambertia inermis	Chittick	Secondary	-	-	Johnstone & Storr 1998; Groom 2011
Lambertia multiflora	Many-flowered honeysuckle	Secondary	-	-	Saunders 1980; Groom 2011

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Liquidamber styraciflua	Liquid amber	Primary	-	Secondary	Johnstone et al. 2010; Groom 2011; Groom 2014; Personal observation
Lupinus sp.	Lupin	Secondary	-	-	Saunders 1980; Groom 2011
Macadamia integrifolia	Macadamia	Primary	Secondary	-	Johnstone et al. 2010; Grooms 2011; Groom 2014
Malus domestica	Apple	Secondary	Secondary	-	Johnstone et al. 2010; Johnstone & Storr 1998; DSEWPaC 2012; DoEE 2017; Groom 2011
Melaleuca leuropoma		Secondary	-	-	Saunders 1980; Groom 2011
Melia azedarach	Cape lilac or white cedar	Secondary	-	Primary	Johnstone et al. 2010; Groom 2011
Mesomeleana spp.		Secondary	-	-	Johnstone et al. 2010; Groom 2011
Olea europea	Olive	-	-	Secondary	Johnstone 2017
Persoonia longifolia	Snottygobble	-	-	Secondary	Johnstone & Storr 1998; Johnstone & Kirkby 1999; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017
Pinus canariensis	Canary island pine	Primary	-	-	Johnstone et al. 2010; Groom 2011
Pinus caribea	Caribbean pine	Primary	-	-	Johnstone et al. 2010; Groom 2011
Pinus pinaster	Pinaster or maritime pine	Primary	-	-	Groom 2011
Pinus radiata	Radiata pine	Primary	Secondary	-	Johnstone et al. 2010; Groom 2011
Pinus spp.		Primary	Secondary	-	Johnstone & Storr 1998; Saunders 1979; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017
Protea 'Pink Ice'		Secondary	-	-	Groom 2011
Protea repens		Secondary	-	-	Groom 2011
Protea spp.		Secondary	-	-	Johnstone et al. 2010
Prunus amygdalus	Almond tree	Secondary	-	-	Johnstone & Storr 1998; Johnstone et al. 2010; Groom 2011; DoEE 2017
Pyrus communis	European pear	-	Secondary	-	Johnstone & Storr 1998; Johnstone et al. 2010; DSEWPaC 2012; DoEE 2017
Quercus spp.	Oak	-	Secondary	-	Johnstone et al. 2010

Species name	Common name	Foraging category as assigned by Emerge			Literature references
		CBC	BBC	FRTBC	
Raphanus raphanistrum	Wild radish	Secondary	-	-	Groom 2011; DoEE 2017
Reedia spathacea		-	Secondary	-	Johnstone et al. 2010
Rumex hypogaeus	Doublegee	Secondary	-	-	Saunders 1980
Stenocarpus sinuatus		Secondary	-	-	Johnstone et al. 2010
Syzygium smithii	Lilly pilly	Secondary	-	-	Groom 2014
Tipuana tipu	Tipu or rosewood tree	Primary	-	-	Groom 2011, Groom 2014
Xanthorrhoea preissii	Grass tree	Secondary	Secondary	-	Groom 2011; Johnstone et al. 2010
Xylomelum occidentale	Woody pear	Secondary	-	-	Groom 2014

CBC=Carnaby's black cockatoo, BBC=Baudin's black cockatoo and FRTBC=Forest red-tailed black cockatoo

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Appendix D

Conservation Significant Species and Likelihood of Occurrence Assessment

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Birds					
Diomedea amsterdamensis	Amsterdam albatross	CR	EN (MI)	The Amsterdam albatross is a marine, pelagic seabird. It nests in open patchy vegetation (among tussocks, ferns or shrubs) near exposed ridges or hillocks (Weimerskirch et al. 1985). It sleeps and rests on ocean waters when not breeding (Marchant and Higgins 1990)	**Unlikely** No suitable habitat occurs in the site.
Botaurus poiciloptilus	Australasian bittern	EN	EN	In or over water, in tall reedbeds, sedges, rushes, cumbungi, lignum. Also occurs in ricefields, drains in tussocky paddocks and occasionally in saltmarshes and brackish wetlands.	**Unlikely** No suitable habitat occurs in the site.
Sternula nereis nereis	Australian fairy tern	VU	VU	Sheltered blue-water seas close to land, estuaries (when free of silt) and near-coastal lakes (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Anous tenuirostris melanops	Australian lesser noddy	EN	VU	Very common in blue-water seas around the Abrolhos (endemic to this area, accidental occurrences on lower west coast of Australia) (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Rostratula australis	Australian painted snipe	EN	EN	Mainly shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans (Marchant and Higgins 1993).	**Unlikely** No suitable habitat occurs in the site.
Limosa lapponica	Bar-tailed godwit	MI (& VU or CR at subsp. level)	MI	Estuarine sand and mudflats and sandy beaches with loads of seaweed; also reef flats and near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Zanda baudinii	Baudin's cockatoo	EN	EN	Mainly eucalypt forests. Attracted to seeding Corymbia calophylla, Banksia spp., Hakea spp., and to fruiting apples and pears (Johnstone and Storr 1998).	**Possible** Areas of primary foraging habitat present within site.
Ixobrychus flavicollis australis	Black bittern	P2	-	Freshwater pools, swamps and lagoons, well-screened with trees. Occasionally feeding by day but mainly sheltering in dense waterside vegetation (Melaleuca spp., Eucalyptus camaldulensis, Pandanus spp. and long grass) (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Thalassarche melanophris	Black-browed albatross	EN	VU (MI)	Seas of south and west coasts. Visitor to Western Australian mainland from January to early November (mostly May to September). Breeds on southern subantarctic and antarctic islands (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Limosa limosa	Black-tailed godwit	MI	MI	Tidal mudflats, estuaries, sewage ponds, shallow river margins, brackish or saline inland lakes, flooded pastures, airfields (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Oxyura australis	Blue-billed duck	P4	-	Mainly deeper freshwater swamps and lakes; occasionally saltlakes and estuaries freshened by flood waters (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Thalassarche melanophris impavida	Campbell albatross	VU	VU (MI)	Scarce visitor to south-western and western Australian seas. Breeds on Campbell Island.	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Zanda latirostris	Carnaby's cockatoo	EN	EN	Mainly proteaceous scrubs and heaths and adjacent eucalypt woodlands and forests; also plantations of Pinus spp. Attracted to seeding Banksia spp., Dryandra spp., Hakea spp., Eucalyptus spp., Corymbia calophylla, Grevillea spp., and Allocasuarina spp. (Johnstone and Storr 1998).	**Recorded** Foraging evidence found within the site.
Hydroprogne caspia	Caspian tern	MI	MI	Mainly sheltered areas, estuaries (when not laden with silt) and tidal creeks; occasionally near-coastal saltlakes (including saltwork ponds) and brackish pools in lower courses of rivers; rarely fresh waters.	**Unlikely** No suitable habitat occurs in the site.
Tringa nebularia	Common greenshank	MI	MI	Mudflats, estuaries, saltmarshes, margins of lakes, wetlands, claypans (fresh and saline), commercial saltfields, sewage ponds (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Actitis hypoleucos	Common sandpiper	MI	MI	Edge of sheltered waters salt or fresh, e.g. estuaries, mangrove creeks, rocky coasts, near-coastal saltlakes (including saltwork ponds), river pools, lagoons, claypans, drying swamps, flood waters, dams and sewage ponds. Preferring situations where low perches are available (Johnstone & Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Thalasseus bergii	Crested tern	MI	MI	Mainly blue-water seas (especially within 3 km of land), including southern estuaries in summer and autumn (when free of silt); also tidal creeks in north, but not penetrating far into larger estuaries.	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Calidris ferruginea	Curlew sandpiper	CR	CR (MI)	Mainly shallows of estuaries and near-coastal saltlakes (including saltwork ponds) and drying near-coastal freshwater lakes and swamps. Also beaches and near-coastal sewage ponds.	**Unlikely** No suitable habitat occurs in the site.
Numenius madagascariensis	Eastern curlew	CR	CR (MI)	Mainly tidal mudflats; also reef flats, sandy beaches and rarely near-coastal lakes (including saltwork ponds) (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Pachyptila turtur subantarctica	Fairy prion	-	VU	Breeds on subantarctic islands and is presumed to frequent subtropical waters during non-breeding period (TSSC 2015).	**Unlikely** No suitable habitat occurs in the site.
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	VU	VU	Eucalypt and Corymbia forests, often in hilly interior. More recently also observed in more open agricultural and suburban areas including Perth metropolitan area. Attracted to seeding Corymbia calophylla, Eucalyptus marginata, introduced Melia azedarach and Eucalyptus spp. trees.	**Recorded** Foraging evidence found within the site.
Plegadis falcinellus	Glossy Ibis	MI	MI	Well-vegetated wetlands, wet pasture, ricefields, floodwaters, floodplains, brackish or occasionally saline wetlands, mangroves, mudflats and occasionally dry grassland (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Calidris tenuirostris	Great knot	CR	CR (MI)	Mud or sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds.	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Charadrius leschenaultii	Great sand plover	VU	VU (MI)	Wide sandy or shelly beaches, sandpits, tidal mudflats, reefs, sand cays, mangroves, saltmarsh, dune wilderness, bare paddocks, seldom far inland (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Pluvialis squatarola	Grey Plover	MI	MI	Mudflats, saltmarsh, tidal reefs and estuaries, rarely inland (Pizzey and Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Motacilla cinerea	Grey wagtail	MI	MI	In Australia mostly near running water in disused quarries, sandy and rocky streams in escarpments and rainforests, sewage ponds, ploughed fields and airfields (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Elanus scriptus	Letter-winged kite	P4	-	Open to sparsely wooded country and grassland near tree-lined streams or watercourses (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Leipoa ocellata	Mallefowl	VU	VU	Scrubs and thickets of Eucalyptus spp., Melaleuca lanceolata and Acacia linophylla; also other dense litter-forming shrublands. Attracted to fallen wheat in stubbles and along roads (Johnstone and Storr 1998).	**Unlikely** Site is located outside of current known distribution. No longer occurs on Swan Coastal Plain
Tringa stagnatilis	Marsh sandpiper	MI	MI	Mainly shallow fresh or brackish waters: swamps, lakes, river pools, soaks, sewage ponds and bore overflows. Occasionally estuaries and salt ponds, and rarely coasts.	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Cacatua pastinator pastinator	Muir's corella	CD	-	Wheat and sheep farming country with remnant native forest. Species is restricted to the south-west corner of WA, near Lake Muir (DPaW 2015).	**Unlikely** Site occurs outside of current known population. Restricted to the lower south-west.
Macronectes halli	Northern giant petrel	MI	VU (MI)	Breeds on subantarctic islands. May visit Western Australian water from February to September (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Diomedea sanfordi	Northern royal albatross	EN	EN	Species is marine, pelagic and aerial. Habitat includes subantarctic, subtropical, and occasionally Antarctic waters (Marchant & Higgins 1990). Rare visitors to south-western Australian waters.	**Unlikely** No suitable habitat occurs in the site.
Pandion haliaetus	Osprey	MI	MI	Coasts, estuaries, bays, inlets, islands, and surrounding waters; coral atolls, reefs, lagoons, rock cliffs, stacks (Pizzey & Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Apus pacificus	Pacific swift	MI	MI	Aerial, migratory species that is most often seen over inland plains and sometimes above open areas, foothills or in coastal areas. Sometimes occurs over settled areas, including towns, urban areas and cities (Pizzey & Knight 2012).	**Possible** May opportunistically occur in or or fly over the site on commute or while searching for prey.
Calidris melanotos	Pectoral sandpiper	MI	MI	Mainly fresh waters (swamps, lagoons, river pools, irrigation channels and sewage ponds); also samphire flats around estuaries and saltlakes (Johnstone & Storr 1998).	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Falco peregrinus	Peregrine falcon	OS	-	Mainly found around cliffs along coasts, rivers, ranges and around wooded watercourses and lakes (Johnstone and Storr 1998).	**Possible** May opportunistically occur in or or fly over the site on commute or while searching for prey.
Calidris canutus	Red knot	EN	EN (MI)	Mud and sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds.	**Unlikely** No suitable habitat occurs in the site.
Calidris ruficollis	Red-necked stint	MI	MI	Tidal mudflats, saltmarshes, sandy or shelly beaches, saline and freshwater wetlands (coastal and inland), saltfields, sewage ponds (Pizzey and Knight 2012).	**Unlikely** No suitable habitat occurs in the site.
Calidris alba	Sanderling	MI	MI	Mainly steeply shelving sandy beaches exposed to ocean swell. Also sandy inlets, estuarine sandbanks and near-coastal saltlakes (including saltwork ponds) (Johnstone & Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Calidris acuminata	Sharp-tailed sandpiper	MI	MI	Occurs in tidal mudflats, saltmarshes and mangroves, as well as, shallow fresh, brackish or saline inland wetlands. It is also known from floodwaters, irrigated pastures and crops, sewage ponds, saltfields.	**Unlikely** No suitable habitat occurs in the site.
Thalassarche cauta	Shy albatross	VU	VU (MI)	Scarce visitor (late May to mid-October) to southwestern and western seas. Breeds on islands off Tasmania and south New Zealand (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Macronectes giganteus	Southern giant-petrel	MI	EN (MI)	Breeds on southern subantarctic and antarctic islands. May visit Western Australian waters from February to December (mostly June to September) (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Diomedea epomophora	Southern royal albatross	VU	VU (MI)	Rare visitor to Western Australian seas; it breeds on subantarctic islands south of New Zealand (Johnstone and Storr 1998).	**Unlikely** No suitable habitat occurs in the site.
Diomedea exulans	Wandering albatross	VU	VU (MI)	Marine, pelagic and aerial species. It breeds on Macquarie Island and feeds in Australian portions of the Southern Ocean (DoE 2018).	**Unlikely** No suitable habitat occurs in the site.
Thalassarche steadi	White-capped albatross	VU	VU (MI)	Marine species that occurs in subantarctic and subtropical waters. It reaches tropical areas associated with the cool Humboldt Current off South America (Marchant & Higgins 1990). The species has been noted in shelf-waters around breeding islands and over adjacent rises. During the non-breeding season, birds have been observed over continental shelves around continents. The species occurs both inshore and offshore (Marchant 1977) and enters harbours and bays (Jehl 1973). Birds gather to scavenge at commercial fishing grounds.	**Unlikely** No suitable habitat occurs in the site.
Tringa glareola	Wood sandpiper	MI	MI	Mainly shallow fresh waters (lagoons, swamps, claypans, river pools, dams, bore overflows and sewage ponds); occasionally brackish swamps, rarely saltlakes and estuaries (Pizzey & Knight).	**Unlikely** No suitable habitat occurs in the site.
Fish					

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Galaxiella nigrostriata	Black-stripe minnow	EN	EN	Seasonally dry coastal wetlands. Permanent or ephemeral spring-fed headwater streams, ponds, roadside ditches and small creeks in sandy wetland areas with thick vegetation. Also occurs in the shallow areas of some freshwater lakes with thick vegetation. The water is usually highly tannin-stained and acidic (pH 4.5-6.5) (Bray and Gomon 2017).	**Unlikely** No suitable habitat occurs in the site.
Invertebrates					
Westralunio carteri	Carter's freshwater mussel	VU	VU	Occurs in greatest abundance in slower flowing streams with stable sediments that are soft enough for burrowing amongst woody debris and exposed tree roots. Also occupies lentic systems including large water supply dams and even on-stream farm dams. Salinity tolerance quite low (Morgan et al. 2011).	**Unlikely** No suitable habitat occurs in the site.
Australotomurus morbidus	Cemetery springtail	P3	-	Unknown.	**Unlikely** Four known populations in WA. Closest population 8km south-east.
Hesperocolletes douglasi	Douglas's broad-headed bee	CR	CR	Banksia woodland vegetation (Pille Arnold 2019).	**Possible** Suitable habitat recorded within the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Synemon gratiosa	Graceful sunmoth	P4	-	Coastal heathland on Quindalup dunes where it is restricted to secondary sand dunes due to the abundance of the preferred host plant Lomandra maritima. Banksia woodland on Spearwood and Bassendean dunes, where the second known host plant L. hermaphrodita is widespread (DEC 2011).	**Possible** *Lomandra hermaphrodita* historically recorded within the site.
Idiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	P3	-	Widely distributed in sandy areas on the Swan Coastal Plain and on Rottnest Island (Prince 2003).	**Possible** Suitable habitat recorded within the site.
Mammals					
Macrotis lagotis	Bilby	VU	VU	Open tussock grassland on uplands and hills, mulga woodland/shrubland growing on ridges and rises and hummock grassland (spinifex) growing on sandplains and dunes, drainage systems, salt lake systems and other alluvial areas (DBCA 2017a).	**Unlikely** Site occurs outside of current known population. No longer found on the Swan Coastal Plain.
Dasyurus geoffroii	Chuditch	VU	VU	Wide range of habitats from woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. Appears to utilise native vegetation along roadsides in the wheatbelt (DEC 2012b).	**Unlikely** No suitable habitat occurs in the site.
Macroderma gigas	Ghost bat	VU	VU	Requires undisturbed roost caves or mineshafts, usually complex systems with several openings (Menkhorst and Knight 2011).	**Unlikely** No suitable habitat occurs in the site.
Isoodon fusciventer	Quenda	P4	-	Dense scrubby, often swampy, vegetation with dense cover up to one metre high (DEC 2012)	**Possible** Suitable habitat occurs in the site.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Hydromys chrysogaster	Rakali	P4	-	Areas with permanent water, fresh, brackish or marine. Likely to occur in all major rivers and most of the larger streams as well as bodies of permanent water in the lower south-west (Christensen et al. 1985).	**Unlikely** No suitable habitat occurs in the site.
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale	CD	-	Dry sclerophyll forests and open woodlands that contain hollow-bearing trees but a sparse ground cover (Triggs 2003).	**Unlikely** Site occurs outside of current known distribution. Generally occurs further south and in the Jarrah forest.
Notamacropus eugenii derbianus	Tammar wallaby	P4	-	Dry sclerophyll forest, Banksia spp. woodlands and shrublands, typically favouring dense low vegetation that provides dense cover (Christensen and Strahan 1983).	**Unlikely** Site occurs outside of current known population. Closest population 100km south-east.
Notamacropus irma	Western brush wallaby	P4	-	Dry sclerophyll forest, Banksia spp. woodlands and shrublands, typically favouring dense low vegetation that provides dense cover (Christensen and Strahan 1983).	**Unlikely** No suitable habitat occurs in the site.
Falsistrellus mackenziei	Western false pipistrelle	P4	-	High rainfall forests dominated by jarrah, karri, marri, and tuart. Occupies hollow logs for breeding and resting (Van Dyck and Strahan 2008). Also known to utilise Banksia woodland on the Swan Coastal Plain (Hosken and O'Shea 1995).	**Unlikely** Site occurs outside current known distribution. No sightings north of Mandurah since 1993.

Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		
Pseudocheirus occidentalis	Western ringtail possum	CR	CR	On the Swan Coastal Plain in Agonis flexuosa woodlands and Agonis flexuosa/ Eucalyptus gomphocephala forests. Also Eucalyptus marginata forests (DBCA 2017).	**Unlikely** Site occurs outside current known distribution. Closest population approx. 100km south.
Bettongia penicillata ogilbyi	Woylie	CR	EN	Woodlands and adjacent heaths with a dense understorey of shrubs, particularly Gastrolobium spp. (TSSC 2018).	**Unlikely** Site occurs outside current known distribution. Closest population approx. 140km south-east.
Reptiles					
Neelaps calonotos	Black-striped snake	P3	-	Coastal and near-coastal dunes, sandplains supporting heathlands and Banksia spp. woodlands (Bush et al. 2002).	**Possible** Suitable habitat recorded within the site.
Ctenotus gemmula (Swan Coastal Plain population)	Jewelled sandplain ctenotus	P3	-	Species inhabits low vegetation in Banksia woodlands where it shelters in leaf litter under trees and shrubs and abandoned stick-ant nests (Bush et al. 2010).	**Unlikely** No recent sightings occur close to the site.
Pseudemydura umbrina	Western swamp tortoise	CR	CR	Clay based ephemeral swamps (Bush et al. 2002).	**Unlikely** No suitable habitat occurs in the site.

Note: CE=critically endangered, EN=endangered, VU=vulnerable, CD=conservation dependent, MI=migratory, OS=other specially protected, P1=Priority 1, P2=Priority 2, P3=Priority 3, P4=Priority 4. Species recorded or considered to potentially occur within the site are shaded green.

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Species name	Common name	Level of significance		Habitat	Likelihood of occurrence
		WA	EPBC Act		

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Appendix E

Species List

Fauna List
Lot 822 Youle-Dean Rd, Brabham

Category	Status	Species name	Common name	Record type
Birds		*Gumnorhina tibicen*	Australian magpie	Sight
		Corvus coronoides	Australian raven	Call
		Banardius zonarius	Australian ringneck	Sight
		Coracina novaehollandiae	Black-faced cuckoo-shrike	Sight, call
	EN	*Zanda latirostris*	Carnaby's black cockatoo	Foraging evidence
		Neophema elegans	Elegant parrot	Sight
	VU	*Calyptorhynchus banksii naso*	Forest Red-Tailed black cockatoo	Foraging evidence
		Rhipidura albiscapa	Grey fantail	Sight
		Phylidonyris novaehollandiae	New holland honeyeater	Sight, call
		Anas superciliosa	Pacific black duck	Sight
		Cracticus nigrogularis	Pied butcherbird	Sight
		Merops ornatus	Rainbow bee-eater	Sight
		Anthochaera carenculata	Red wattlebird	Call
		Purpureicephalus spurius	Red-capped parrot	Foraging evidence
		Pachycephala rufiventris	Rufous whistler	Call
		Malurus splendens	Splendid fairy wren	Sight
		Spilopelia chinensis	Spotted dove	Sight
		Sericrnis frontalis	Spotted scrubwren	Sight
		Petrochelidon nigricans	Tree martin	Sight
		Smicrornis brevirostris	Weebill	Sight
		Gerygone fusca	Western gerygone	Call
		Anthochaera lunulata	Western wattlebird	Sight
		Haliastur sphenurus	Whistling kite	Call
Mammals		*Macropus fulignosus*	Western grey kangaroo	Sight
	*, DP	*Oryctolagus cuniculus*	Rabbit	Tracks, scats
Reptile		*Tiliqua rugosa*	Bobtail	Track
		Pseudonaja affinis	Dugite	Sight
		Cryptoblepharus buchananii	Buchanan's snake-eyed skink	Sight

Note: * denotes introduced fauna species, DP=declared pest under the BAM Act, VU = Vulnerable, EN = Endangered

Appendix F

Black Cockatoo Habitat Tree Data

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
1913	402753.84	6476819.33	61	*Corymbia calophylla*	No suitable hollow/s	MS	
3081	402940.96	6476825.76	53	*Corymbia calophylla*	No suitable hollow/s	SCM	
3082	402923.77	6476822.05	120	*Corymbia calophylla*	No suitable hollow/s	SCM	
3086	402906.90	6476804.59	84	*Corymbia calophylla*	No suitable hollow/s	SCM	
3100	402868.15	6476779.62	62	*Corymbia calophylla*	No suitable hollow/s	SCM	
3101	402867.35	6476784.04	52	*Corymbia calophylla*	No suitable hollow/s	SCM	
3106	402857.02	6476776.19	68	*Corymbia calophylla*	No suitable hollow/s	SCM	
633	403048.80	6477221.65	52	*Corymbia calophylla*	No suitable hollow/s	SCM	
634	403131.26	6477429.62	54	*Corymbia calophylla*	No suitable hollow/s	SCM	
635	403126.89	6477431.57	74	*Corymbia calophylla*	No suitable hollow/s	SCM	
636	403107.59	6477420.75	69	*Corymbia calophylla*	No suitable hollow/s	SCM	
637	403099.78	6477426.00	66	*Corymbia calophylla*	No suitable hollow/s	SCM	
638	403059.64	6477347.13	53	*Corymbia calophylla*	No suitable hollow/s	SCM	
640	403184.56	6477306.74	58	*Corymbia calophylla*	No suitable hollow/s	SCM	
643	403184.65	6477257.07	70	*Corymbia calophylla*	No suitable hollow/s	SCM	
645	403200.89	6477119.98	60	*Corymbia calophylla*	No suitable hollow/s	SCM	
646	403267.69	6477101.99	87	*Corymbia calophylla*	No suitable hollow/s	SCM	
647	403285.82	6477166.68	68	*Corymbia calophylla*	No suitable hollow/s	SCM	
648	403334.49	6477153.17	64	*Corymbia calophylla*	No suitable hollow/s	SCM	
651	403393.75	6477131.11	63	*Corymbia calophylla*	No suitable hollow/s	SCM	
652	403412.89	6476957.36	50	*Corymbia calophylla*	No suitable hollow/s	SCM	
653	403395.20	6476907.19	102	*Corymbia calophylla*	Potentially suitable hollow/s	SCM	
654	403402.96	6476916.91	50	*Corymbia calophylla*	No suitable hollow/s	SCM	
661	403447.45	6476683.97	58	*Corymbia calophylla*	No suitable hollow/s	SCM	
666	402883.97	6476988.29	64	*Corymbia calophylla*	No suitable hollow/s	SCM	
668	402987.95	6476940.27	94	*Corymbia calophylla*	No suitable hollow/s	SCM	
670	403226.83	6476797.86	61	*Corymbia calophylla*	No suitable hollow/s	SCM	
674	403304.37	6476622.99	62	*Corymbia calophylla*	No suitable hollow/s	SCM	
675	403472.78	6476657.61	51	*Corymbia calophylla*	No suitable hollow/s	SCM	
682	403045.12	6476919.75	61	*Corymbia calophylla*	No suitable hollow/s	SCM	
696	402522.33	6477101.93	60	*Corymbia calophylla*	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
698	402521.64	6477115.12	64	*Corymbia calophylla*	No suitable hollow/s	SCM	
701	403035.90	6477485.81	69	*Corymbia calophylla*	No suitable hollow/s	NAW	
702	403030.75	6477480.11	64	*Corymbia calophylla*	No suitable hollow/s	NAW	
703	403018.81	6477481.77	54	*Corymbia calophylla*	No suitable hollow/s	NAW	
704	403002.47	6477527.95	53	*Corymbia calophylla*	No suitable hollow/s	NAW	
705	403004.88	6477523.87	60	*Corymbia calophylla*	No suitable hollow/s	NAW	
706	403015.74	6477525.42	60	*Corymbia calophylla*	No suitable hollow/s	NAW	
708	402974.93	6477458.30	57	*Corymbia calophylla*	No suitable hollow/s	NAW	
709	402971.25	6477456.16	57	*Corymbia calophylla*	No suitable hollow/s	NAW	
710	402890.86	6477521.58	60	*Corymbia calophylla*	No suitable hollow/s	NAW	
711	402844.32	6477478.46	59	*Corymbia calophylla*	No suitable hollow/s	NAW	
712	402910.69	6477566.33	52	*Corymbia calophylla*	No suitable hollow/s	NAW	
716	403182.08	6477700.70	70	*Corymbia calophylla*	No suitable hollow/s	NAW	
717	403177.53	6477711.63	64	*Corymbia calophylla*	No suitable hollow/s	NAW	
718	402755.35	6477569.41	70	*Corymbia calophylla*	No suitable hollow/s	NAW	
719	402749.43	6477564.58	83	*Corymbia calophylla*	No suitable hollow/s	NAW	
720	402719.10	6477619.84	69	*Corymbia calophylla*	No suitable hollow/s	NAW	
721	402674.86	6477583.72	63	*Corymbia calophylla*	No suitable hollow/s	NAW	
722	402602.68	6477560.53	65	*Corymbia calophylla*	No suitable hollow/s	NAW	
724	402521.30	6477509.54	85	*Corymbia calophylla*	No suitable hollow/s	NAW	
729	402566.45	6477469.29	67	*Corymbia calophylla*	No suitable hollow/s	NAW	
730	402593.68	6477481.52	67	*Corymbia calophylla*	No suitable hollow/s	NAW	
732	402665.65	6477437.86	59	*Corymbia calophylla*	No suitable hollow/s	NAW	
733	402664.91	6477425.54	55	*Corymbia calophylla*	No suitable hollow/s	NAW	
734	402678.29	6477391.75	60	*Corymbia calophylla*	No suitable hollow/s	NAW	
735	402674.35	6477387.94	65	*Corymbia calophylla*	No suitable hollow/s	NAW	
736	402673.67	6477379.84	65	*Corymbia calophylla*	No suitable hollow/s	NAW	
738	402562.56	6477271.04	66	*Corymbia calophylla*	No suitable hollow/s	NAW	
739	402648.97	6477309.66	53	*Corymbia calophylla*	No suitable hollow/s	NAW	
741	402664.20	6477351.26	58	*Corymbia calophylla*	No suitable hollow/s	NAW	
742	402483.71	6477332.48	79	*Corymbia calophylla*	Potentially suitable hollow/s	NAW	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
743	402491.18	6477342.75	60	*Corymbia calophylla*	No suitable hollow/s	NAW	
744	402526.81	6477377.79	88	*Corymbia calophylla*	No suitable hollow/s	NAW	
745	402572.66	6477443.41	73	*Corymbia calophylla*	No suitable hollow/s	NAW	
746	402552.62	6477441.00	68	*Corymbia calophylla*	No suitable hollow/s	NAW	
747	402501.45	6477397.06	51	*Corymbia calophylla*	No suitable hollow/s	NAW	
748	402495.12	6477405.87	51	*Corymbia calophylla*	No suitable hollow/s	NAW	
749	402484.27	6477413.08	75	*Corymbia calophylla*	No suitable hollow/s	NAW	
750	402470.25	6477444.32	54	*Corymbia calophylla*	No suitable hollow/s	NAW	
751	402425.65	6477376.83	70	*Corymbia calophylla*	No suitable hollow/s	NAW	
797	402810.63	6476877.51	54	*Corymbia calophylla*	No suitable hollow/s	NAW	
801	403256.36	6477732.44	54	*Corymbia calophylla*	No suitable hollow/s	ASF	
806	403267.52	6477693.30	69	*Corymbia calophylla*	No suitable hollow/s	ASF	
807	403219.88	6477696.40	52	*Corymbia calophylla*	Potentially suitable hollow/s	ASF	
808	403210.77	6477688.78	98	*Corymbia calophylla*	No suitable hollow/s	ASF	
809	403194.82	6477674.77	53	*Corymbia calophylla*	No suitable hollow/s	ASF	
810	403191.51	6477674.18	88	*Corymbia calophylla*	No suitable hollow/s	ASF	
811	403166.55	6477651.33	64	*Corymbia calophylla*	No suitable hollow/s	ASF	
812	403165.44	6477679.04	79	*Corymbia calophylla*	No suitable hollow/s	ASF	
813	403204.46	6477706.12	65	*Corymbia calophylla*	No suitable hollow/s	ASF	
815	402751.64	6477281.70	68	*Corymbia calophylla*	No suitable hollow/s	ASF	
816	402733.33	6477285.74	77	*Corymbia calophylla*	No suitable hollow/s	ASF	
817	402774.49	6477326.48	63	*Corymbia calophylla*	No suitable hollow/s	ASF	
818	402675.32	6477205.48	78	*Corymbia calophylla*	No suitable hollow/s	ASF	
821	402829.29	6476875.69	83	*Corymbia calophylla*	No suitable hollow/s	NAW	
824	402850.08	6476898.95	140	*Corymbia calophylla*	No suitable hollow/s	NAW	
954	402988.91	6477280.28	54	*Corymbia calophylla*	No suitable hollow/s	SKP	
955	402977.93	6477280.51	72	*Corymbia calophylla*	No suitable hollow/s	SKP	
956	403003.94	6477282.42	52	*Corymbia calophylla*	No suitable hollow/s	SKP	
957	403009.49	6477285.57	59	*Corymbia calophylla*	No suitable hollow/s	SKP	
964	403336.69	6477362.38	76	*Corymbia calophylla*	No suitable hollow/s	SKP	
965	403321.36	6477352.48	67	*Corymbia calophylla*	No suitable hollow/s	SKP	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
966	403315.60	6477360.63	64	*Corymbia calophylla*	No suitable hollow/s	SKP	termite damage near base
967	403313.66	6477325.02	88	*Corymbia calophylla*	No suitable hollow/s	SKP	
968	403326.30	6477330.35	62	*Corymbia calophylla*	No suitable hollow/s	SKP	
969	403342.57	6477320.75	55	*Corymbia calophylla*	No suitable hollow/s	SKP	
970	403352.29	6477314.08	65	*Corymbia calophylla*	No suitable hollow/s	SKP	
972	403366.06	6477298.02	65	*Corymbia calophylla*	No suitable hollow/s	SKP	
974	403349.21	6477288.66	61	*Corymbia calophylla*	No suitable hollow/s	SKP	
975	403335.08	6477301.61	65	*Corymbia calophylla*	No suitable hollow/s	SKP	
980	403405.46	6477134.66	92	*Corymbia calophylla*	No suitable hollow/s	SKP	
981	403437.58	6476979.21	51	*Corymbia calophylla*	No suitable hollow/s	SKP	
982	403450.95	6476925.79	55	*Corymbia calophylla*	No suitable hollow/s	SKP	
988	403509.49	6476688.66	60	*Corymbia calophylla*	No suitable hollow/s	SKP	
0	403191.38	6476872.96	50	*Eucalyptus gomphocephala*	No suitable hollow/s	SCM	Inside locked compound, not measured but looks large enough. Likely planted
0	403179.80	6476872.72	50	*Eucalyptus gomphocephala*	No suitable hollow/s	SCM	Inside locked compound, not measured but looks large enough. Likely planted
0	403265.05	6476815.58	50	*Eucalyptus gomphocephala*	No suitable hollow/s	SCM	Inside locked compound, not measured but looks large enough. Likely planted
0	403261.89	6476851.61	50	*Eucalyptus marginata*	No suitable hollow/s	SCM	Inside locked compound, not measured but looks large enough
0	403155.48	6476837.76	50	*Eucalyptus marginata*	No suitable hollow/s	SCM	Inside locked compound, not measured but looks large enough
1671	402714.93	6476900.11	50	*Eucalyptus marginata*	No suitable hollow/s	MS	
1672	402710.96	6476900.07	61	*Eucalyptus marginata*	No suitable hollow/s	MS	
1683	402784.40	6476899.66	99	*Eucalyptus marginata*	No suitable hollow/s	MS	
1876	403070.06	6476633.64	50	*Eucalyptus marginata*	No suitable hollow/s	SCM	
1882	403085.71	6476660.06	50	*Eucalyptus marginata*	No suitable hollow/s	SCM	
1883	403091.48	6476660.34	61	*Eucalyptus marginata*	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
3006	402953.26	6476635.86	64	*Eucalyptus marginata*	No suitable hollow/s	SCM	
3054	402958.02	6476653.31	54	*Eucalyptus marginata*	No suitable hollow/s	SCM	
3058	402985.54	6476674.63	59	*Eucalyptus marginata*	No suitable hollow/s	SCM	
3059	402973.00	6476659.44	71	*Eucalyptus marginata*	No suitable hollow/s	SCM	
3093	402898.15	6476789.88	96	*Eucalyptus marginata*	No suitable hollow/s	SCM	
549	403003.99	6476715.71	50	*Eucalyptus marginata*	No suitable hollow/s	SCM	
568	403046.62	6476620.23	59	*Eucalyptus marginata*	No suitable hollow/s	SCM	
655	403406.58	6476874.26	110	*Eucalyptus marginata*	Potentially suitable hollow/s	SCM	
656	403404.21	6476854.84	97	*Eucalyptus marginata*	No suitable hollow/s	SCM	
657	403397.34	6476850.23	63	*Eucalyptus marginata*	No suitable hollow/s	SCM	
658	403388.65	6476848.04	73	*Eucalyptus marginata*	No suitable hollow/s	SCM	
659	403423.80	6476824.21	106	*Eucalyptus marginata*	No suitable hollow/s	SCM	
663	403347.12	6476856.86	110	*Eucalyptus marginata*	Potentially suitable hollow/s	SCM	
664	403357.91	6476846.43	52	*Eucalyptus marginata*	No suitable hollow/s	SCM	
669	403003.52	6476935.65	68	*Eucalyptus marginata*	No suitable hollow/s	SCM	
671	403237.91	6476756.83	54	*Eucalyptus marginata*	No suitable hollow/s	SCM	
672	403268.33	6476772.86	69	*Eucalyptus marginata*	No suitable hollow/s	SCM	
673	403290.51	6476728.17	68	*Eucalyptus marginata*	No suitable hollow/s	SCM	
676	403276.39	6476810.96	78	*Eucalyptus marginata*	No suitable hollow/s	SCM	
680	403239.71	6476896.86	60	*Eucalyptus marginata*	No suitable hollow/s	SCM	
715	403125.30	6477710.03	89	*Eucalyptus marginata*	No suitable hollow/s	NAW	
827	402882.67	6476855.36	69	*Eucalyptus marginata*	No suitable hollow/s	NAW	
983	403420.95	6476825.07	107	*Eucalyptus marginata*	No suitable hollow/s	SKP	
989	403337.86	6476846.01	100	*Eucalyptus marginata*	No suitable hollow/s	SKP	
991	403311.63	6476897.54	114	*Eucalyptus marginata*	No suitable hollow/s	SKP	
1000	402439.46	6477078.53	52	*Eucalyptus rudis*	No suitable hollow/s	SCM	
1601	402677.73	6477040.99	72	*Eucalyptus rudis*	No suitable hollow/s	MS	
1603	402678.64	6477035.68	58	*Eucalyptus rudis*	No suitable hollow/s	MS	
1610	402669.79	6477019.85	84	*Eucalyptus rudis*	No suitable hollow/s	MS	
1634	402535.22	6476900.07	56	*Eucalyptus rudis*	No suitable hollow/s	MS	
601	402862.54	6477052.49	164	*Eucalyptus rudis*	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
602	402862.00	6477039.63	51	*Eucalyptus rudis*	No suitable hollow/s	SCM	
603	402895.24	6477017.88	67	*Eucalyptus rudis*	No suitable hollow/s	SCM	
604	402902.66	6477062.96	51	*Eucalyptus rudis*	No suitable hollow/s	SCM	
605	402944.08	6477066.57	66	*Eucalyptus rudis*	No suitable hollow/s	SCM	
606	402945.97	6477107.60	124	*Eucalyptus rudis*	No suitable hollow/s	SCM	
607	402937.68	6477113.07	77	*Eucalyptus rudis*	No suitable hollow/s	SCM	
608	402893.78	6477092.14	58	*Eucalyptus rudis*	No suitable hollow/s	SCM	
609	402899.53	6477114.59	52	*Eucalyptus rudis*	No suitable hollow/s	SCM	
610	402927.78	6477139.36	108	*Eucalyptus rudis*	No suitable hollow/s	SCM	
611	402933.68	6477155.82	71	*Eucalyptus rudis*	No suitable hollow/s	SCM	
612	402925.14	6477158.18	51	*Eucalyptus rudis*	No suitable hollow/s	SCM	
613	402930.57	6477154.90	73	*Eucalyptus rudis*	No suitable hollow/s	SCM	
614	402937.43	6477159.74	53	*Eucalyptus rudis*	No suitable hollow/s	SCM	
615	402938.22	6477165.95	85	*Eucalyptus rudis*	No suitable hollow/s	SCM	
616	402934.01	6477170.79	77	*Eucalyptus rudis*	No suitable hollow/s	SCM	
617	402931.14	6477183.95	74	*Eucalyptus rudis*	No suitable hollow/s	SCM	
618	402888.19	6477142.20	63	*Eucalyptus rudis*	No suitable hollow/s	SCM	
619	402916.24	6477198.45	69	*Eucalyptus rudis*	No suitable hollow/s	SCM	
620	402927.38	6477201.10	65	*Eucalyptus rudis*	No suitable hollow/s	SCM	
621	402932.88	6477200.38	101	*Eucalyptus rudis*	No suitable hollow/s	SCM	
622	402927.66	6477202.43	60	*Eucalyptus rudis*	No suitable hollow/s	SCM	
623	402928.54	6477209.43	52	*Eucalyptus rudis*	No suitable hollow/s	SCM	
624	402933.49	6477215.68	140	*Eucalyptus rudis*	No suitable hollow/s	SCM	
625	402930.26	6477217.31	98	*Eucalyptus rudis*	No suitable hollow/s	SCM	
626	402926.03	6477224.37	179	*Eucalyptus rudis*	No suitable hollow/s	SCM	
627	402919.64	6477209.90	54	*Eucalyptus rudis*	No suitable hollow/s	SCM	
628	402979.88	6477194.17	74	*Eucalyptus rudis*	No suitable hollow/s	SCM	
629	402999.80	6477219.30	56	*Eucalyptus rudis*	No suitable hollow/s	SCM	
630	402995.66	6477246.87	62	*Eucalyptus rudis*	No suitable hollow/s	SCM	
631	402993.48	6477256.82	50	*Eucalyptus rudis*	No suitable hollow/s	SCM	
632	403013.94	6477235.29	76	*Eucalyptus rudis*	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
642	403095.50	6477207.23	61	*Eucalyptus rudis*	No suitable hollow/s	SCM	
686	402608.42	6477085.34	57	*Eucalyptus rudis*	No suitable hollow/s	SCM	
687	402606.04	6477086.21	56	*Eucalyptus rudis*	No suitable hollow/s	SCM	
688	402610.76	6477068.07	70	*Eucalyptus rudis*	No suitable hollow/s	SCM	
689	402606.90	6477076.24	87	*Eucalyptus rudis*	No suitable hollow/s	SCM	
690	402595.31	6477070.14	90	*Eucalyptus rudis*	No suitable hollow/s	SCM	
691	402540.44	6477048.34	56	*Eucalyptus rudis*	No suitable hollow/s	SCM	
692	402492.13	6476983.91	53	*Eucalyptus rudis*	No suitable hollow/s	SCM	
693	402480.83	6476967.40	66	*Eucalyptus rudis*	No suitable hollow/s	SCM	
694	402468.63	6476946.33	89	*Eucalyptus rudis*	No suitable hollow/s	SCM	
695	402475.40	6476990.96	56	*Eucalyptus rudis*	No suitable hollow/s	SCM	
699	402568.94	6477117.01	168	*Eucalyptus rudis*	No suitable hollow/s	SCM	
700	402567.95	6477101.70	77	*Eucalyptus rudis*	No suitable hollow/s	SCM	
713	402909.63	6477697.80	113	*Eucalyptus rudis*	No suitable hollow/s	NAW	
725	402358.62	6477370.09	93	*Eucalyptus rudis*	No suitable hollow/s	NAW	
752	402346.15	6477377.51	100	*Eucalyptus rudis*	No suitable hollow/s	NAW	
753	402361.16	6477341.85	108	*Eucalyptus rudis*	No suitable hollow/s	NAW	
754	402372.16	6477359.14	80	*Eucalyptus rudis*	No suitable hollow/s	NAW	
755	402374.69	6477351.40	55	*Eucalyptus rudis*	No suitable hollow/s	NAW	
756	402381.41	6477351.57	71	*Eucalyptus rudis*	No suitable hollow/s	NAW	
757	402389.04	6477345.88	94	*Eucalyptus rudis*	No suitable hollow/s	NAW	
758	402384.82	6477341.19	61	*Eucalyptus rudis*	No suitable hollow/s	NAW	
759	402388.81	6477339.45	72	*Eucalyptus rudis*	No suitable hollow/s	NAW	
760	402405.90	6477323.98	115	*Eucalyptus rudis*	No suitable hollow/s	NAW	
761	402637.10	6477164.43	70	*Eucalyptus rudis*	No suitable hollow/s	NAW	
762	402635.99	6477162.09	86	*Eucalyptus rudis*	No suitable hollow/s	NAW	
763	402604.75	6477172.77	70	*Eucalyptus rudis*	No suitable hollow/s	NAW	
764	402601.18	6477179.61	70	*Eucalyptus rudis*	No suitable hollow/s	NAW	
765	402593.96	6477193.18	85	*Eucalyptus rudis*	No suitable hollow/s	NAW	
766	402559.35	6477199.72	90	*Eucalyptus rudis*	No suitable hollow/s	NAW	
767	402557.14	6477213.34	106	*Eucalyptus rudis*	No suitable hollow/s	NAW	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
768	402545.66	6477216.11	73	*Eucalyptus rudis*	No suitable hollow/s	NAW	
769	402542.96	6477222.07	55	*Eucalyptus rudis*	No suitable hollow/s	NAW	
770	402541.85	6477228.60	109	*Eucalyptus rudis*	No suitable hollow/s	NAW	
771	402269.05	6477284.77	124	*Eucalyptus rudis*	No suitable hollow/s	NAW	
772	402273.92	6477289.91	60	*Eucalyptus rudis*	No suitable hollow/s	NAW	
773	402337.76	6477283.65	64	*Eucalyptus rudis*	No suitable hollow/s	NAW	
774	402292.25	6477273.13	72	*Eucalyptus rudis*	No suitable hollow/s	NAW	
775	402276.21	6477258.45	72	*Eucalyptus rudis*	No suitable hollow/s	NAW	
776	402277.80	6477270.11	64	*Eucalyptus rudis*	No suitable hollow/s	NAW	
777	402302.55	6477254.49	58	*Eucalyptus rudis*	No suitable hollow/s	NAW	
778	402366.11	6477238.35	69	*Eucalyptus rudis*	No suitable hollow/s	NAW	
779	402370.70	6477233.30	64	*Eucalyptus rudis*	No suitable hollow/s	NAW	
780	402377.04	6477144.67	99	*Eucalyptus rudis*	No suitable hollow/s	NAW	
781	402330.44	6477158.64	62	*Eucalyptus rudis*	No suitable hollow/s	NAW	
782	402356.34	6477111.22	63	*Eucalyptus rudis*	No suitable hollow/s	NAW	
783	402434.62	6477099.88	90	*Eucalyptus rudis*	No suitable hollow/s	NAW	
814	402790.16	6477261.55	58	*Eucalyptus rudis*	No suitable hollow/s	ASF	
819	402674.92	6477128.43	54	*Eucalyptus rudis*	No suitable hollow/s	ASF	
934	402817.44	6477078.67	62	*Eucalyptus rudis*	No suitable hollow/s	SKP	
936	402828.65	6477113.70	62	*Eucalyptus rudis*	No suitable hollow/s	SKP	
938	402819.45	6477136.45	62	*Eucalyptus rudis*	No suitable hollow/s	SKP	
939	402843.84	6477149.32	81	*Eucalyptus rudis*	No suitable hollow/s	SKP	
940	402865.47	6477153.62	58	*Eucalyptus rudis*	No suitable hollow/s	SKP	
943	402876.25	6477224.12	58	*Eucalyptus rudis*	No suitable hollow/s	SKP	
945	402891.17	6477188.01	55	*Eucalyptus rudis*	No suitable hollow/s	SKP	
947	402902.16	6477216.61	52	*Eucalyptus rudis*	No suitable hollow/s	SKP	
948	402915.54	6477233.25	64	*Eucalyptus rudis*	No suitable hollow/s	SKP	
949	402927.79	6477238.69	65	*Eucalyptus rudis*	No suitable hollow/s	SKP	
951	402935.65	6477257.83	64	*Eucalyptus rudis*	No suitable hollow/s	SKP	
953	402938.41	6477236.35	57	*Eucalyptus rudis*	No suitable hollow/s	SKP	
992	402571.95	6477099.19	61	*Eucalyptus rudis*	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
993	402571.20	6477088.54	75	*Eucalyptus rudis*	No suitable hollow/s	SCM	
994	402537.13	6477078.57	102	*Eucalyptus rudis*	No suitable hollow/s	SCM	
995	402580.66	6477098.71	77	*Eucalyptus rudis*	No suitable hollow/s	SCM	
996	402501.10	6477154.83	84	*Eucalyptus rudis*	No suitable hollow/s	SCM	
997	402478.65	6477167.70	88	*Eucalyptus rudis*	No suitable hollow/s	SCM	
998	402482.85	6477123.17	61	*Eucalyptus rudis*	No suitable hollow/s	SCM	
999	402427.86	6477114.67	119	*Eucalyptus rudis*	No suitable hollow/s	SCM	
583	403063.47	6476679.47	68	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
639	403172.74	6477356.07	79	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
660	403424.10	6476752.15	52	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
662	403358.02	6476765.17	53	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
665	403356.85	6476879.01	52	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
681	403138.02	6476882.93	54	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
683	403094.81	6476968.77	82	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
685	403305.43	6476983.39	85	*Eucalyptus todtiana*	No suitable hollow/s	SCM	
714	402922.49	6477679.29	103	*Eucalyptus todtiana*	No suitable hollow/s	NAW	
803	403219.93	6477751.16	60	*Eucalyptus todtiana*	No suitable hollow/s	ASF	
804	403210.17	6477773.58	65	*Eucalyptus todtiana*	No suitable hollow/s	ASF	
805	403224.29	6477730.81	68	*Eucalyptus todtiana*	No suitable hollow/s	ASF	
984	403476.41	6476794.66	156	*Eucalyptus todtiana*	No suitable hollow/s	SKP	
985	403477.24	6476736.02	78	*Eucalyptus todtiana*	Potentially suitable hollow/s	SKP	
987	403496.96	6476711.93	107	*Eucalyptus todtiana*	No suitable hollow/s	SKP	
1680	402760.38	6476917.94	81	Stag	Potentially suitable hollow/s	MS	
641	403186.14	6477329.81	82	Stag	No suitable hollow/s	SCM	
644	403194.00	6477178.90	58	Stag	No suitable hollow/s	SCM	
649	403367.87	6477136.19	76	Stag	No suitable hollow/s	SCM	
650	403386.20	6477129.16	108	Stag	No suitable hollow/s	SCM	
667	402930.24	6476978.64	64	Stag	No suitable hollow/s	SCM	
677	403273.54	6476852.39	119	Stag	Potentially suitable hollow/s	SCM	
678	403284.47	6476857.26	59	Stag	No suitable hollow/s	SCM	
679	403301.82	6476844.35	55	Stag	No suitable hollow/s	SCM	

Tag No.	Easting	Northing	DBH (cm)	Species	Category	Recorder	Notes
684	403065.15	6477002.86	91	Stag	No suitable hollow/s	SCM	
697	402517.66	6477104.99	58	Stag	Potentially suitable hollow/s	SCM	
707	403003.02	6477519.42	64	Stag	No suitable hollow/s	NAW	
723	402599.99	6477615.60	70	Stag	No suitable hollow/s	NAW	
728	402537.78	6477458.37	69	Stag	No suitable hollow/s	NAW	
737	402613.27	6477252.67	72	Stag	Potentially suitable hollow/s	NAW	
740	402648.10	6477331.82	74	Stag	No suitable hollow/s	NAW	
802	403232.71	6477751.51	84	Stag	Potentially suitable hollow/s	ASF	
826	402857.46	6476849.36	71	Stag	No suitable hollow/s	NAW	
958	403015.22	6477289.84	71	Stag	Potentially suitable hollow/s	SKP	
986	403489.62	6476727.83	61	Stag	No suitable hollow/s	SKP	
990	403330.03	6476863.23	101	Stag	No suitable hollow/s	SKP	

Appendix C

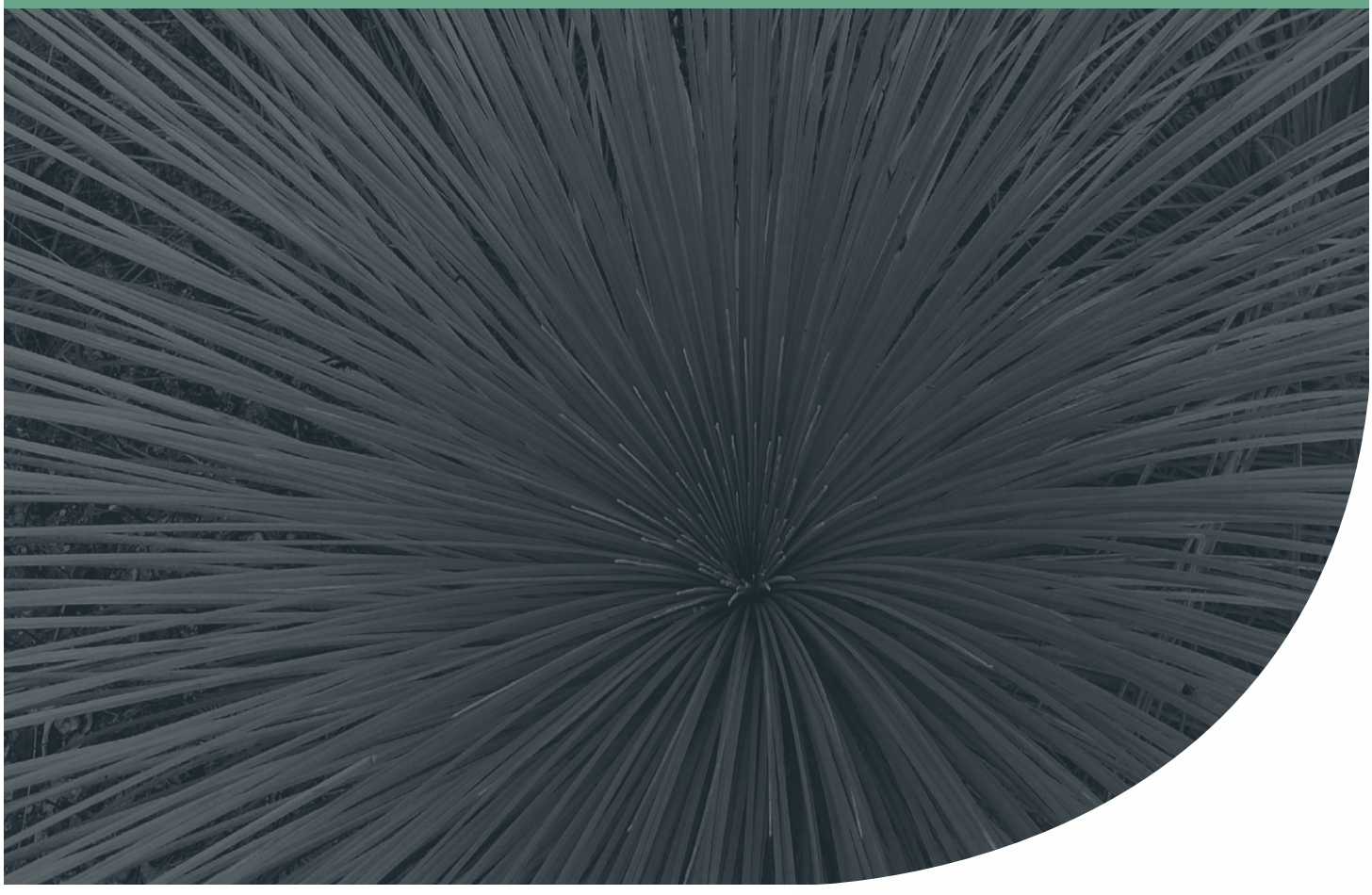
Flora and Vegetation Assessment (Emerge, 2024)

Detailed Flora and Vegetation Assessment

Lot 822 Youle-Dean Road, Brabham

Project No: EP17-131(27)

Prepared for Peet Limited
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Executive Summary

Peet Limited engaged Emerge Associates to conduct a detailed flora and vegetation assessment to provide information on the flora and vegetation values within Lot 822 Youle-Dean Road in Brabham (referred to herein as the 'site').

As part of the assessment a desktop review of relevant background information was completed and a field survey was undertaken on 29 and 30 September, 27 October 2021 and 10 January and 24 March 2022. During the field survey an assessment was made on the type, condition and values of vegetation across the site.

Outcomes of the survey include the following:

- Non-native vegetation and cleared bare ground is present across 29% of the site.
- Remnant native vegetation is present across 71% of the site in varying levels of condition.
- A total of 103 native and 53 non-native (weed) species were recorded in the site.
- One priority flora species, *Verticordia lindleyi* subsp. *lindleyi* (P4) was recorded within the site.
- No other threatened or priority species are considered likely to occur.
- The vegetation within the site was classified into the following nine plant communities that are present in 'very good', 'good', 'degraded' and 'completely degraded' condition.
    - Plant community **BAfCcEm** includes the highest quality vegetation and is present in the southern half of the site. This community showed high similarity to multiple 'floristic community types' (FCTs) but was considered to represent FCT 21a 'Central *Banksia attenuata – Eucalyptus marginata* woodlands'.
    - Plant communities **Ep**, **Ms** and **VdSi** are present as previously disturbed areas within the **BAfCcEm** vegetation, and as such represent altered forms of FCT 21a.
    - Plant community **Mr** is present in the northern most portion of the site and represents FCT 13 'Deeper wetlands on heavy soils'.
    - Plant communities **CcMp** and **ErMp** occur within the central portion of the site and were determined to represent degraded forms of FCT 11 'wet forests and woodlands'.
    - Plant community **Mp** consists of a canopy of native trees over introduced pasture grasses that was too degraded to assign to an FCT.
    - Cleared vegetation that contains bare ground and non-native vegetation occurs across the remainder of the site.
- The **BAfCcEm** vegetation represents the 'banksia woodlands of the Swan Coastal Plain' 'threatened ecological community' (TEC) and state listed 'priority ecological community' (PEC) of the same name (P3) (25.92 ha in total).

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Abbreviation Tables

Table A1: Abbreviations – Organisations

Organisations	
EPA	Environmental Protection Authority
DBCA	Department of Biodiversity, Conservation and Attractions
DoW	Department of Water (now DWER)
DWER	Department of Water and Environmental Regulation
DPaW	Department of Parks and Wildlife
WALGA	Western Australia Local Government Association

Table A2: Abbreviations – General terms

General terms	
CCW	Conservation category wetland
DSP	District Structure Plan
ESA	Environmentally sensitive area
FCT	Floristic community type
IBRA	Interim Biogeographic Regionalisation of Australia
MUW	Multiple use wetland
NVIS	National Vegetation Inventory System (ESCAVI 2003)
P1	Priority 1
P2	Priority 2
P3	Priority 3
P4	Priority 4
P5	Priority 5
PEC	Priority ecological community
REW	Resource enhancement wetland
T	Threatened
TEC	Threatened ecological communities
UFI	Unique feature identifier

Table A3: Abbreviations – Legislation

Legislation	
BAM Act	*Biosecurity and Agriculture Management Act 2007*
EP Act	*Environmental Protection Act 1986*
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999*
BC Act	*Biodiversity Conservation Act 2016*
BC Regs	Biodiversity Conservation Regulations 2018

Table A4: Abbreviations – Units of measurement

Units of measurement	
cm	Centimetre
ha	Hectare
m	Metre
m^2	square metre
m AHD	m in relation to the Australian height datum
mm	Millimetre

1 Introduction

1.1 Project background

Emerge Associates (Emerge) were engaged by Peet Limited to characterise the flora and vegetation values within Lot 822 Youle-Dean Road in Brabham (referred to herein as the 'site'). This lot is located approximately 17 kilometres (km) north-east of the Perth Central Business District within the City of Swan.

The site is approximately 109.8 hectares (ha) in size and is bounded by bushland and a historical airstrip to the east, Youle-Dean Road to the north, Isoodon Street to the west and bushland to the south. The location and extent of the site is shown in **Figure 1**.

1.2 Purpose and scope of work

The scope of work was specifically to undertake a flora and vegetation assessment within the site to the standard required of a detailed survey with reference to the Environmental Protection Authority's (EPA's) technical guidance (EPA 2016).

As part of this scope of work, the following tasks were undertaken:

- Desktop review of relevant background information pertaining to the site and surrounds, including database searches for threatened flora species and ecological communities.
- A field survey to record a comprehensive list of flora species and assess vegetation type and condition.
- Mapping of plant communities, vegetation condition and conservation significant flora and vegetation.
- Identification of potential habitat for conservation significant flora and vegetation and an assessment of likelihood of occurrence.
- Documentation of the desktop assessment, methodology, field survey and results into a report.

2 Environmental Context

2.1 Climate

Climate influences the types of vegetation that grow in a region and the life cycles of the flora present. Therefore, it is critical for a flora and vegetation survey to respond appropriately to climatic conditions to ensure that surveys are conducted during times when flora species are easiest to detect and identify.

The south-west of Western Australia experiences a Mediterranean climate of hot dry summers and cool wet winters. In Mediterranean type climates some flora species will typically spend part of their lifecycle as either underground storage organs or as seed. This is an adaptation to unfavourable environmental conditions such as excessive heat and drought that occur over the summer period. These species, known as 'geophytes' or 'annuals', tend to re-emerge during winter when favourable conditions return and are most visible during spring, which is the flowering period for a majority of plant species. Therefore, spring is the optimal time to complete flora and vegetation surveys in the south-west of WA.

An average of 752.2 millimetres (mm) of rainfall is recorded annually from the Whiteman Park weather station (no. 9263), which is the closest weather station, located approximately 1 km from the site. The majority of this rainfall is received between the months of May and September. Mean maximum temperatures at the Millendon weather station, which is the nearest temperature recording station approximately 5 km north-east of the site, range from 18.1°C in July to 32.2°C in January, while mean minimum temperatures range from 6.3°C in June to 17.1°C in February (BoM 2022).

A total of 377.5 mm of rain was recorded from May to September 2021 prior to the survey, which is approximately 68% of the mean of 556 mm for this period (BoM 2022). Although lower than the mean this amount of rainfall was considered to have been sufficient to promote the flowering and emergence of native flora.

2.2 Geomorphology and soils

Landform and soils influence vegetation types at regional and local scales. The site occurs on the Swan Coastal Plain, which is the geomorphic unit that characterises much of the Perth metropolitan area. The Swan Coastal Plain is approximately 500 km long and 20 to 30 km wide and is roughly bound by the Indian Ocean to the west and the Darling Scarp to the east. Broadly the Swan Coastal Plain consists of two sedimentary belts of different origin. Its eastern side comprises the Pinjarra Plain which formed from the deposition of alluvial material washed down from the Darling Scarp, while its western side comprises three dune systems that run roughly parallel to the Indian Ocean coastline (Seddon 2004). These dune systems, referred to as Quindalup, Spearwood and Bassendean associations, represent a succession of coastal deposition that has occurred since the late Quaternary period (approximately two million years ago) (Kendrick *et al.* 1991) and, as a result, they contain soils at different stages of leaching and formation.

Examination of broad scale soil mapping places the site within the within the Southern River association of the Bassendean dunes (Churchward and McArthur 1980). The Southern River association is described as comprising a sandplain with low dunes and many intervening swamps, iron and humus podzols, peats and clays.

The soil types mapped within the site are shown in **Figure 2**.

The site is not known to contain any restricted landforms or unique geological features.

2.3 Topography

The elevation of the site ranges from 22 m in relation to the Australian height datum (mAHD) on the south eastern side of the site to 26 mAHD on the south western side of the site (DoW 2008) (**Figure 2**).

2.4 Hydrology and wetlands

Wetlands are areas of seasonally, intermittently or permanently waterlogged land such as poorly drained soils, ponds, billabongs, lakes, swamps, tidal flats, estuaries, rivers and their tributaries (Wetlands Advisory Committee 1977). Wetlands can be recognised by the presence of vegetation associated with waterlogging or the presence of hydric soils such as peat, peaty sand or carbonate mud (Hill *et al.* 1996).

Wetlands of national or international significance may be afforded special protection under Commonwealth or international agreements. The following lists of important wetlands were checked as part of this assessment:

- *Ramsar List of Wetlands of International Importance* (DBCA 2017)
- *A Directory of Important Wetlands in Australia* (DBCA 2018)

No Ramsar or listed 'important wetlands' are located within or near the site.

Examination of the Department of Water and Environmental Regulation (DWER) hydrography dataset (DWER 2018) shows the following four wetland or water related features occur within the site:

- Four earth dams
- Two minor drains.

The Department of Biodiversity, Conservation and Attractions (DBCA) has developed the *Geomorphic Wetlands of the Swan Coastal Plain* dataset (DBCA 2021). This dataset maps geomorphic wetland features and classifies them based on their landform shape and water permanence. Each feature is assigned to one of three management categories which guides land use and conservation.

A review of the *Geomorphic Wetlands, Swan Coastal Plain* dataset indicated that a 'resource enhancement' category wetland (unique feature identifier (UFI) 8807) occurs within the north-eastern portion of the site and extends further north outside of the site (DBCA 2021). Another 'resource enhancement' category wetland feature (UFI 8814) occurs in the centre of the site. Both

features are classified as sumpland wetlands. The locations of the geomorphic wetlands in the site are shown in **Figure 2**.

2.5 Regional vegetation

Native vegetation is described and mapped at different scales in order to illustrate patterns in its distribution. At a continental scale the *Interim Biogeographic Regionalisation of Australia* (IBRA) divides Australia into floristic subregions (Environment Australia 2000).

The site is contained within the Swan Coastal Plain IBRA region and within the 'SWA02' or Perth subregion. The Perth subregion is characterised by mainly banksia low woodland on leached sands with melaleuca swamps where ill-drained; and woodland of *Eucalyptus gomphocephala* (tuart), *E. marginata* (jarrah) and *Corymbia calophylla* (marri) on less leached soils (Beard 1990). This subregion is recognised as a biodiversity hotspot and contains a wide variety of endemic flora and vegetation types.

Variations in native vegetation can be further classified based on regional vegetation mapping. Heddle *et al.* (1980) mapping shows the site as comprising the 'Southern River' complex, which is described as comprising open woodland of *Corymbia calophylla, Eucalyptus marginata* and *Banksia* spp. with fringing woodland of *Eucalyptus rudis* and *Melaleuca rhaphiophylla* along creek beds.

The Southern River complex was determined to have 18.4% of its pre-European extent remaining in 2018, of which 1.4% was protected for conservation purposes (Government of Western Australia 2019).

2.6 Historical land use

Review of historical images available from 1953 onwards shows that portions of the site were cleared of native vegetation prior to this time, particularly in the northern portion of the site and for construction of the two airstrips in the site (WALIA 2022). The site was commissioned as a military airfield in 1944. After the war, the site was used for motor racing until 1969 when it was reactivated as a military base (PGV Environmental 2013). Excepting the intersecting airstrips, the southern portion of the site retained fairly intact vegetation from 1953 but was subsequently subject to scattered clearing between 1965 to 1979 and 1985 to 1989. Since this time the vegetation has remained relatively stable, with some of the areas of clearing showing evidence of recolonisation in more recent aerials. From 2015, additional clearing is visible in the northern portion of the site associated with the residential development occurring to the north of the site and the expansion of Youle-Dean Road.

2.7 Conservation significant values

2.7.1 Threatened and priority flora

Certain flora taxa that are considered to be rare or under threat warrant special protection under Commonwealth and/or State legislation. At a Commonwealth level, flora taxa may be listed as 'threatened' under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Threatened flora species listed under the EPBC Act are assigned a conservation status according to attributes such as population size and geographic distribution. Any action likely to have a significant impact on a taxon listed under the EPBC Act requires Ministerial approval.

In Western Australia flora species may also be classed as 'threatened' under *the Biodiversity Conservation Act 2016* (BC Act). Similarly, it is an offence to 'take' or 'disturb' threatened flora listed under the BC Act without Ministerial approval.

Flora species that do not currently meet the criteria for listing as threatened but are potentially rare or threatened may be added to the DBCA's *Priority Flora List*. These species are classified into 'priority' levels based on threat. Whilst priority species are not under direct statutory protection, they are considered during State approval processes.

Further information on threatened and priority species and their categories is provided in **Appendix A**. An assessment of the likelihood of occurrence of threatened and priority flora within the site was undertaken (refer to **Sections 3.1** and **4.2.1**).

2.7.2 Threatened and priority ecological communities

An ecological community is a naturally occurring group of native plants, animals and other organisms that are interacting in a unique habitat. An ecological community's structure, composition and distribution are influenced by environmental factors such as soil type, position in the landscape, altitude, climate and water availability (DAWE 2021a). 'Threatened ecological communities' (TECs) are ecological communities that are recognised as rare or under threat and therefore warrant special protection.

Selected TECs are afforded statutory protection at a Commonwealth level under the EPBC Act. Similar to flora species, TECs listed under the EPBC Act are assigned a conservation status. Any action likely to have a significant impact on a community listed under the EPBC Act requires Ministerial approval.

TECs are also listed within Western Australia under the BC Act and the BC Regulations. Their significance is also acknowledged through other state environmental approval processes such as 'environmental impact assessment' pursuant to Part IV of *the Environmental Protection Act 1986* (EP Act) and the *Environmental Protection* (Clearing of Native Vegetation) *Regulations 2004*.

An ecological community that is under consideration for listing as a TEC in Western Australia but does not yet meet survey criteria or has not been adequately defined may be listed as a 'priority ecological community' (PEC). Listing as a PEC is similarly considered during State approval processes.

Further information on categories of TECs and PECs is provided in **Appendix A**. An assessment of the likelihood of occurrence of threatened and priority flora within the site was undertaken (refer to **Sections 3.1** and **4.3.1**).

2.8 Weeds and pests

The term 'weed' can refer to any plant that requires some form of action to reduce its effect on the economy, the environment, human health and amenity. Many non-native flora species and some

native species are considered to be weeds. The likelihood of weeds occurring is higher in areas disturbed areas, especially areas that have been agricultural or urban landuse.

A particularly invasive or detrimental weed species may be listed as a 'declared pest' pursuant to *Western Australia's Biosecurity and Agriculture Management Act 2007* (BAM Act), indicating that it warrants special management to limit its spread.

The Commonwealth government has further compiled a list of 32 *Weeds of National Significance* (WoNS) (DAWE 2021b). Whilst the WoNS list is non-statutory, many WoNS are also listed under the BAM Act. Further information on weeds and declared pests is provided in **Appendix A**.

2.9 Bush Forever

The Government of Western Australia's *Bush Forever* policy is a strategic plan for conserving regionally significant bushland within the Swan Coastal Plain portion of the Perth Metropolitan Region. The objective of *Bush Forever* is to protect comprehensive representations of all original ecological communities by targeting a minimum of 10% of each vegetation complex for protection (Government of WA 2000a). *Bush Forever* sites are representative of regional ecosystems and habitat and have a key role in the conservation of Perth's biodiversity.

No *Bush Forever* sites occur within the site. Bush Forever site no. 200 (Caversham Airfield Bushland, West Swan/Whiteman) lies directly adjacent to the southern and eastern site boundary. The locations of this *Bush Forever* site and additional *Bush Forever* sites in the wider area of the site are shown in **Figure 3**.

2.10 Ecological linkages

Ecological linkages are linear landscape elements that allow the movement of fauna, flora and genetic material between areas of remnant habitat. This exchange of genetic material between vegetation remnants improves the viability of those remnants by allowing greater access to breeding partners and food sources, refuge from disturbances such as fire and maintenance of genetic diversity of plant communities and populations. Ecological linkages are ideally continuous or near-continuous as the more fractured a linkage is, the less ease flora and fauna have in moving within the corridor (Alan Tingay and Associates 1998).

The Perth Biodiversity Project, supported by the Western Australia Local Government Association (WALGA), have identified and mapped regional ecological linkages within the Perth Metropolitan Region (WALGA and PBP 2004).

Biodiversity linkage no. 32 intersects the western and southern portions of the site and extends beyond the site in an east-west direction, linking bushland to the east of the site to Whiteman Park. The locations of this linkage and additional linkages in the wider area of the site are shown in **Figure 3**.

2.11 Previous surveys

A number of previous flora and vegetation assessments have been undertaken within the site, as detailed in **Table 1**.

Table 1: Previous flora and vegetation assessments

Author	Purpose, extent and significant results
Ecoscape (2001)	Flora and vegetation survey (undertaken in 1997) of the greater Albion District Structure Plan (DSP) area which included the site.
Ecologia (1999)	Survey of the Broader Caversham airfield (including the adjacent Bush Forever areas).
Ecoscape (2002)	A threatened ecological community (TEC) assessment was undertaken within the site.
Western Botanical (2006)	Survey of the site and adjacent Bush Forever areas undertaken in February 2006. Western Botanical recorded one priority flora species occurring within the site, *Verticordia lindleyi* subsp. *lindleyi* (P4). *Goodenia filiformis* was also recorded, this species was listed as priority 3 at the time but has since been delisted.
Eco Logical (2010)	A targeted survey was undertaken to determine the potential occurrence and extent of TECs. The results of this survey are not known.
PGV Environmental (2013)	Flora and vegetation survey undertaken as part of the broader EPBC Act referral process to enable development of the site. *Verticordia lindleyi* subsp. *lindleyi* (P4) was also recorded during this survey.

3 Methods

3.1 Database searches

A search was conducted for threatened and priority flora that may occur or have been recorded within a 10 km radius of the site using the *Protected Matters Search Tool* (DAWE 2022), *NatureMap* (DBCA 2022) and DBCA's threatened and priority flora database (reference no. 43-1121FL).

A search was also conducted for TECs and PECs that may occur or have been recorded within a 10 km radius of the site using the *Protected Matters Search Tool* (DAWE 2022), the *weed and native flora dataset* (Keighery *et al.* 2012) and DBCA's threatened and priority ecological communities' database (reference no. 30_1121EC).

Prior to undertaking the field survey, information on the habitat preferences of threatened and priority flora species and communities identified from database searches was reviewed. This was compared to existing environmental information available for the site, such as geomorphology, soils, regional vegetation and historic land use, to identify species and communities for which habitat may occur in the site.

3.2 Field survey

Botanists and ecologists from Emerge visited the site on 29 and 30 September, 27 October 2021 and 10 January and 24 March 2022 to conduct the flora and vegetation field survey.

The site was traversed on foot and the composition and condition of vegetation was recorded. Photographs were taken throughout the field visit to show particular site conditions. Flora species not native to Western Australia are denoted by an asterisk ('*') in text and raw data.

Plant specimens collected during the field survey were dried, pressed and named in accordance with requirements of the Western Australian Herbarium (2022). Identification of specimens occurred through comparison with named material and through the use of taxonomic keys.

3.2.1 Sampling

Detailed sampling of the vegetation was undertaken using a combination of non-permanent 10 x 10 m quadrats and relevés. The quadrats were established using fence droppers bound by measuring tape. The relevés were completed over an equivalent 10 x 10 m area without the use of physical markers and were included to provide a more rapid sample of patches of vegetation in poorer condition and/or of smaller size. The position of each sample was recorded with a hand-held GPS unit.

The data recorded within each sample included:

- site details (site name, site number, observers, date, location)
- environmental information (slope, aspect, bare-ground, rock outcropping soil type and colour class, litter layer, topographical position, time since last fire event)

- biological information (vegetation structure and condition, degree of disturbance and species present). 'Foliage projective cover' (FPC) was also recorded for quadrats.

Additional plant taxa not observed within samples were recorded opportunistically as the botanists traversed the site.

3.2.2 Targeted searches

The suitability of habitat within the site for conservation significant flora and communities identified in the desktop assessment was assessed (refer **Section 3.1**). Areas of suitable habitat were traversed along transects and searched for conservation significant species, as required.

3.2.3 Vegetation condition

Vegetation condition was assigned at each sample and changes in vegetation condition were also noted and mapped across the site. The condition of the vegetation was assessed using the Keighery (1994) scale (**Table 1**). For vegetation in the site containing *Banksia* spp., the condition scale provided in the conservation advice for the 'banksia woodlands of the Swan Coastal Plain TEC' (DoEE 2016a) was applied in addition to the Keighery scale, as shown in **Table 1**.

Table 2: Vegetation condition scale applied during the field assessment

Condition category	Definition (Keighery 1994)	Indicator (DoEE 2016a)	
		Typical native vegetation composition	Typical weed cover
Pristine	Pristine or nearly so, no obvious signs of disturbance.	Native plant species diversity fully retained or almost so	Zero or close to
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.	High native plant species diversity	Less than 10%
Very good	Vegetation structure altered obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.	Moderate native plant species diversity	5-20%
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.	Low native plant species diversity	5-50%
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.	Very low native plant species diversity	20-70%
Completely degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.	Very low to no native species diversity	Greater than 70%

3.3 Mapping and analysis

3.3.1 Conservation significant flora and communities

Based on the database searches and information recorded during the field survey, an assessment of the likelihood of occurrence of threatened and priority flora species and communities within the site was undertaken using the categories outlined in **Table 2**.

Table 3: Likelihood of occurrence assessment categories and definitions

Likelihood	Definition
Recorded	The species was recorded during the current field survey.
Likely	The site contains suitable habitat for the species and it is likely the species may occur based on presence of a recent historical record within or close to the site.
Possible	The site contains suitable habitat for the species but there is no other information to suggest that the species may occur within or close to the site.
Unlikely	The site does not contain suitable habitat for the species or the site contains suitable habitat for the species within which thorough targeted searches were completed and conclusion has been made that the species is unlikely to be present.

3.3.2 Plant community identification and description

The plant communities within the site were identified from the sample data collected during the field survey. The vegetation was described according to the dominant species present using the structural formation descriptions of the *National Vegetation Inventory System* (NVIS) (NVIS Technical Working Group 2017). The identified plant communities were mapped on aerial photography from the sample locations and boundaries were interpreted from aerial photography and notes taken in the field. Vegetation condition was mapped on aerial photography based on the samples and notes recorded during the field survey to define areas with differing condition.

3.3.3 Floristic community type assignment

The identified plant communities were then compared to the regional 'floristic community type' (FCT) dataset *A floristic survey of the southern Swan Coastal Plain* (Gibson *et al.* 1994). Each sample was compared to Gibson *et al.* (1994) separately to limit the influence of spatial correlation when assigning an FCT. FCT analysis was not undertaken for samples located within disturbed vegetation with low native species diversity as the vegetation was considered unlikely to currently represent an FCT.

Sample data (presence/absence) was first reconciled with Gibson *et al.* (1994) by standardising the names of taxa with those used in the earlier study. This was necessary due to changes in nomenclature in the intervening period. Taxa that were only identified to genus level were excluded, while some infra-species that have been identified since 1994 were reduced to species level. The combined dataset was then imported into the statistical analysis package PRIMER v6 (Clarke and Gorley 2006).

A resemblance matrix was generated using the Bray-Curtis distance measure which provided the percentage similarity between all pairs of samples. Subsequently, a cluster analysis was undertaken using the resemblance matrix and hierarchical agglomerative clustering, to produce a dendrogram.

Where a sample tended to cluster with a grouping of different FCTs, the resemblance matrix was examined. Ultimately a combination of cluster analysis, resemblance matrix and contextual information relating to the soils, landforms and known FCTs within the region was considered in the final determination of an FCT for vegetation within the site.

3.3.4 Threatened and ecological communities

Areas of native vegetation potentially representing a TEC were assessed against key diagnostic characteristics and, if available, size and/or vegetation condition thresholds.

3.3.5 Species accumulation curve

A species accumulation curve was plotted from sample data by generating a trendline (log) in Microsoft Excel. The trendline was forecast to locate the asymptote of the curve (the point at which the curve flattens), which provides an indication of amount of sampling that would be required before it can be assumed few species remain undetected. PRIMER v6 also offers a range of estimators to predict minimum species richness (Clarke and Gorley 2006). Both the Jacknife1 and Chao2 non-parametric estimators are reported, as these are known to perform well in comparison to simulated and real data sets and are also recommended for small sample sizes (Gotelli and Colwell 2011). Comparison between actual and estimated species accumulation assists in evaluating the adequacy of sampling effort.

3.4 Survey limitations

It is important to note the specific constraints imposed on surveys and the degree to which these may have limited survey outcomes. An evaluation of the survey methodology against standard constraints outlined in the EPA document *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016) is provided in **Table 3**.

Table 4: Evaluation of survey methodology against standard constraints outlined in EPA (2016)

Constraint	Degree of limitation	Details
Availability of contextual information	No limitation	The broad scale contextual information described in **Section 2** is adequate to place the site and vegetation in context.
	No limitation	A number of previous flora and vegetation surveys have been conducted within the site. These surveys were considered when undertaken the current assessment.
	No limitation	Regarding assignment of FCTs, the authoritative Gibson *et al.* (1994) dataset was derived from a necessarily limited sample of vegetation from largely publicly owned land which is now more than 20 years out of date. Consequently, it is unknown to what degree official FCTs are appropriate reference to biodiverse vegetation across the Swan Coastal Plain. Furthermore, Gibson *et al.* (1994) collected data in the spring main flowering period and in many cases sampled plots multiple times to provide a complete species list.

Experience level of personnel	No limitation	This flora and vegetation assessment was undertaken by qualified botanists with three to 11 years of botanical experience in Western Australia. Technical review was undertaken by a senior environmental consultant with 11 years' experience in environmental science in Western Australia.
Suitability of timing	No limitation	The survey was conducted in September, October, January and March and thus both within and outside of the main flowering season. Moderate rainfall was recorded from May to September 2021 in the months preceding the site visit. Therefore it is likely that many plant species would have been in flower and/or visible at the time of survey. The survey timing was considered adequate to allow the detection of species for which seasonal timing is critical.
Temporal coverage	No limitation	Detailed flora and vegetation assessments can require multiple visits, at different times of year, and over a period of a number of years, to enable observation of all species present. The site was visited multiple times in spring 2021 and in January and March 2022. The January and March site visits provided an insight into the vegetation condition and composition out of the main flowering period. Therefore, according to the EPA guidelines this survey is considered to meet the requirements of a 'detailed' survey.
Spatial coverage and access	No limitation	Site coverage was comprehensive (track logged).
	No limitation	All parts of the site could be accessed as required.
Sampling intensity	Minor limitation	A total of 157 species were recorded, of which 130 were recorded from 13 sample locations and 27 were recorded opportunistically. Minimum species richness within site is estimated at between 184 (Jacknife1) and 190 (Chao2) species (refer species accumulation curve and estimates shown in **Plate 15**). The number of species recorded in the site (157) is between 82 and 85% of the estimated 184-190 species in the site were recorded and, combined with the degraded nature of the majority of the site, demonstrates that survey effort was adequate to prepare a comprehensive species inventory for the site.
Influence of disturbance	Minor limitation	Time since fire is greater than 60 years as interpreted from aerial imagery and therefore short lived species more common after fire may not have been visible.
	No limitation	Historical ground disturbance was evident in parts of the site. The disturbance history of the site was considered when undertaking field sampling.
Adequacy of resources	No limitation	All resources required to perform the survey were available.

4 Results

4.1 General site conditions

The site is relatively flat and intersected by two airstrips (**Plate 1**). The majority of the site comprises remnant native vegetation with varying levels of disturbance. The northwestern corner of the site is currently in use as a sales centre and a building is also present in the south-eastern portion. There has been recent clearing undertaken in the northern portion of the site to function as a temporary drainage basin associated with development to the north of Youle-Dean Road (**Figure 1**). Standing water was noted along the northern boundary in August 2019 (**Plate 2**) and also in October 2021. One man-made dam is also present in the centre of the site (**Plate 3**). The dam appears to maintain some water levels throughout summer. Soils in the northern portion of the site appear to be sands with underlying clay whilst the southern portion comprises deeper grey sands with dryland vegetation (**Plate 4**).



Plate 1: Historical airstrip with some standing water (August 2019).



Plate 2: Standing water near the northern boundary of the site (August 2019).



Plate 3: Man-made dam in the central portion of the site.



Plate 4: Dryland vegetation and grey sands in the southern portion of the site.

4.2 Flora

4.2.1 Desktop assessment

The database search results identified a total of 27 threatened and 40 priority flora species occurring or potentially occurring within a 10 km radius of the site. Information on these species including their habitat preferences and flowering period is provided in **Appendix B**.

Verticordia lindleyi subsp. *lindleyi* (P4) has been previously recorded in the site (**Section 2.11**). Based on background information available for the site, suitable habitat was considered to potentially occur within the site for 11 threatened flora species and 20 priority flora species as shown in **Table 4**.

Table 5: Conservation significant flora species considered to have potential to occur in the site based on known habitat preferences

Species	Level of significance		Life strategy	Habitat	Flowering period
	State	EPBC Act			
Drakaea elastica	CR	EN	PG	Bare patches of sand within otherwise dense vegetation in low-lying areas alongside winter-wet swamps. Typically in banksia woodland or thickets of *Kunzea glabrescens*.	late Sep-Oct/Nov, survey Jul-Aug
Calytrix breviseta subsp. *breviseta*	CR	EN	P	Seasonally wet sandy-clay soil on swampy flats	Oct-Nov
Caladenia huegelii	CR	EN	PG	Well-drained, deep sandy soils in lush undergrowth in a variety of moisture levels.	Sep-early Nov
Grevillea curviloba	EN	EN	P	Sand, sandy loam. Winter-wet heath.	Aug-Sep
Diuris purdiei	EN	EN	PG	Sand to sandy clay soils in areas subject to winter inundation.	late September to mid-October
Darwinia foetida	EN	EN	P	Grey-white sand on swampy, seasonally wet sites.	Oct-Nov
Macarthuria keigheryi	EN	EN	P	Low-lying winter-wet damp grey/white sands in open patches.	Sep-Dec or Feb-Mar
Drakaea micrantha	EN	VU	PG	Open sandy patches often adjacent to winter-wet swamps.	Sept- early Oct
Anigozanthos viridis subsp. *terraspectans*	VU	VU	P	Grey sand, clay loam. Winter-wet depressions.	Aug-Sep
Conospermum undulatum	VU	VU	P	Sand and sandy clay soils, on flat or gently sloping sites between the Swan and Canning Rivers	May-Oct
Diuris drummondii	VU	VU	PG	In low-lying depressions in peaty and sandy clay swamps.	Nov-Jan
Bolboschoenus fluviatilis	P1	-	P	Floodplain with grey/brown wet sand.	Nov

Table 5: Conservation significant flora species considered to have potential to occur in the site based on known habitat preferences (cont.)

Species	Level of significance		Life strategy	Habitat	Flowering period
	State	EPBC Act			
Hydrocotyle striata	P1	-	A	Sand and clay in springs and creeklines.	Nov
Stachystemon sp. Keysbrook (R. Archer 17/11/99)	P1	-	P	White grey sand.	Oct
Poranthera moorokatta	P2	-	A	Sandy or clay soils. Dampland or low sandy dunes in banksia woodland.	Oct or Feb
Lepyrodia curvescens	P2	-	P	Sand, laterite. Seasonally inundated swampland.	Sep-Nov
Isopogon autumnalis	P3	-	P	Yellow-grey sand.	Feb,Mar,Ap, May or June
Haemodorum loratum	P3	-	P	Grey or yellow sand, gravel.	Nov
Thysanotus anceps	P3	-	P	White or grey sand, lateritic gravel, laterite.	Oct-Dec
Cyathochaeta teretifolia	P3	-	P	Grey sand, sandy clay in swamps and creek edges.	Oct-Jan
Byblis gigantea	P3	-	P	Sandy-peat swamps. Seasonally wet areas.	Sep-Jan
Stylidium trudgenii	P3	-	P	Grey sand, dark grey to black sandy peat. Margins of winter-wet swamps, depressions	Sep-Jan
Eryngium pinnatifidum subsp. Palustre (G.J. Keighery 13459)	P3	-	P	Grey brown sand or clay in winter wet flats.	Sep-Nov
Hydrocotyle lemnoides	P4	-	A	Floating in swamps.	Aug-Oct
Jacksonia sericea	P4	-	P	Calcareous and sandy soils on Swan Coastal Plain	Dec-Feb
Anigozanthos humilis subsp. *chrysanthus*	P4	-	P	Grey or yellow sand	Jul-Oct
Verticordia lindleyi subsp. *lindleyi*	P4	-	P	Sand and sandy clay in winter wet areas.	May or Nov-Jan
Drosera occidentalis	P4	-	P	Flat, brown/white/yellow moist sand/clay/peat, often near swamps.	Oct-Dec/Jan
Thysanotus glaucus	P4	-	P	White, grey or yellow sand, sandy gravel.	Oct-Mar
Hypolaena robusta	P4	-	P	White sand. Sandplains	Sep-Oct
Schoenus griffinianus	P4	-	P	White sand.	Sep-Oct

CR=critically endangered, EN=endangered, VU=vulnerable, P1-P4=Priority 1-Priority 4, A=annual, P=perennial, PG=perennial geophyte.

4.2.2 Species inventory

A total of 101 native and 56 non-native (weed) species were recorded within the site during the field survey, representing 55 families and 125 genera. The dominant families containing native taxa were Myrtaceae (16 native taxa and three weed taxa) and Orchidaceae (nine native taxa and one weed taxa). The most common genera were *Eucalyptus* with six taxa and *Drosera* with four taxa. Of the species recorded 130 were recorded in sample locations and 27 were recorded opportunistically.

A complete species list is provided in **Appendix C.**

4.2.3 Threatened and priority flora

One priority flora species, *Verticordia lindleyi* subsp. *lindleyi* (P4) was recorded as occurring within the site (**Plate 5**). Five individuals were recorded in the central portion of the site, as shown on **Figure 6**.

The majority of the threatened and priority flora species identified in the desktop assessment are not considered to occur in the site due to lack of suitable habitat and/or because they were not recorded during the field survey.

The likelihood of occurrence results are provided in **Appendix B**.



Plate 5: Verticordia lindleyi subsp. lindleyi (P4) recorded in the site.

4.2.4 Locally and regionally significant flora

Two flora species cited as locally or regionally significant in *Bush Forever* (1980) were recorded in the site: *Conostylis aculeata* subsp. *cygnorum* (taxa endemic to the Swan Coastal Plain) and *Verticordia lindleyi* subsp. *lindleyi* (considered to be poorly reserved and significant populations).

4.2.5 Declared pests

Four species listed as a declared pest (C3) pursuant to the BAM Act, **Asparagus asparagoides* (bridal creeper), **Gomphocarpus fruticosus* (narrowleaf cottonbush), **Moraea flaccida* (one leaf cape tulip) and **Zantedeschia aethiopica* (arum lily), was recorded within the site.

Bridal creeper is also listed as a weed of national significance (WoNS).

4.3 Vegetation

4.3.1 Desktop assessment

The database search results identified 17 TECs and seven PECs occurring or potentially occurring within a 10 km radius of the site. Information on these communities is provided in **Appendix D**.

Based geomorphology, soils and regional vegetation patterns, four TECs and four PECs were considered to have potential to occur in the site:

- 'Banksia woodlands of the Swan Coastal Plain' TEC which is listed as 'endangered' under EPBC Act and priority (P3) in WA.
- *'Corymbia calophylla - Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain' (SCP3c) which is listed as 'endangered' under EPBC Act and 'critically endangered' under the BC Act.
- 'Shrublands and woodlands of the eastern side of the Swan Coastal Plain' (SCP20c) which is listed as 'endangered' under EPBC Act and 'critically endangered' under the BC Act.
- *'Banksia attenuata* woodlands over species rich dense shrublands' (SCP20a) which is listed as 'endangered' under the BC Act.
- 'Low lying *Banksia attenuata* woodlands or shrublands' (SCP21c) (P3).
- '*Banksia ilicifolia* woodlands' (SCP22) (P3).
- 'Swan Coastal Plain *Banksia attenuata - Banksia menziesii* woodlands' (SCP23b) (P3).

4.3.2 Plant communities

A total of 13 locations were sampled, comprised of seven quadrats and six relevés, as shown in **Figure 4**.

Nine plant communities were identified within the site. Plant community **BAfCcEm** exists across the southern portions of the site. Plant communities **Ep**, **Ms** and **VdSi** exist as small patches within the **BAfCcEm** vegetation. Plant communities **ErMp** and **CcMp** occurs over most of the northern portion of the site. Plant community **Mr** occurs in the north-western portion of the site and plant community **Mp** occurs in the central portion of the site as multiple patches. The remainder of the site contains non-native vegetation with bare soil, weeds or planted vegetation (31.85 ha).

A description and the area of each plant community is provided in **Table 5** and representative photographs of each are provided in **Plate 6** to **Plate 14**. The location of each plant community is shown in **Figure 4**. A matrix of species recorded within each plant community is provided in **Appendix E** and raw sample data in **Appendix F**.

Table 6: Description and extent of plant communities identified within the site

Plant community	Description	Area (ha)
BAfCcEm	Low open woodland of *Banksia menziesii, Banksia attenuata*, *Banksia ilicifolia*, *Allocasuarina fraseriana, Corymbia calophylla* and *Eucalyptus marginata* over tall open to closed shrubland of **Leptospermum laevigatum* and **Acacia longifolia* (or layer absent) over open shrubland to shrubland of *Xanthorrhoea spp., Stirlingia latifolia* and *Hibbertia spp*. over forbland of *Caladenia flava*, *Drosera erythrorhiza*, *Lagenophora huegelii, Poranthera microphylla, Podotheca gnaphalioides*, *Stylidium* spp., **Hesperantha falcata* and **Hypochaeris glabra* and open grassland of **Ehrharta* spp. (**Plate 6**)	25.92
CcMp	Open woodland of *Corymbia calophylla* and *Melaleuca preissiana* open forbland dominated by weeds and bare ground (**Plate 7**)	28.15
Ep	Low shrubland of *Eremaea pauciflora* subsp. *pauciflora* and *Scholtzia involucrata* over forbland of *Patersonia occidentalis, Podotheca gnaphalioides* and *Trachymene pilosa* (**Plate 8**)	0.32
ErMp	Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sparse forbland dominated by weeds (**Plate 9**)	12.79
Mp	Low closed forest of *Melaleuca preissiana* over sparse forbland dominated by weeds (**Plate 10**)	4.36
Mr	Low closed forest of *Melaleuca rhaphiophylla* over sparse to closed sedge/rush land of *Leptocarpus decipiens*, *Baumea juncea, Juncus pallidus* and **Juncus microcephalus* over open forbland of *Centella asiatica, Lobelia anceps* and **Mentha pulegium* (**Plate 11**)	3.07
Ms	Low shrubland of *Melaleuca seriata* over forbland of *Podotheca gnaphalioides* and **Arctotheca calendula* (**Plate 12**)	1.8
VdSi	Shrubland of *Verticordia densiflora* var. *densiflora*, *Calytrix fraseri, Hibbertia racemosa* and *Scholtzia involucrata* over open forbland *Drosera* spp., *Haemodorum spicatum*, *Laxmannia squarrosa, Waitzia suaveolens* var. *suaveolens* and **Ursinia anthemoides* (**Plate 13**)	1.49
Cleared	Heavily disturbed areas comprising bare ground and weeds with occasional native trees (**Plate 14**)	31.85



*Plate 6: Plant community **BAfCcEm** in 'very good' condition*



*Plate 7: Plant community **CcMp** in 'degraded' condition*

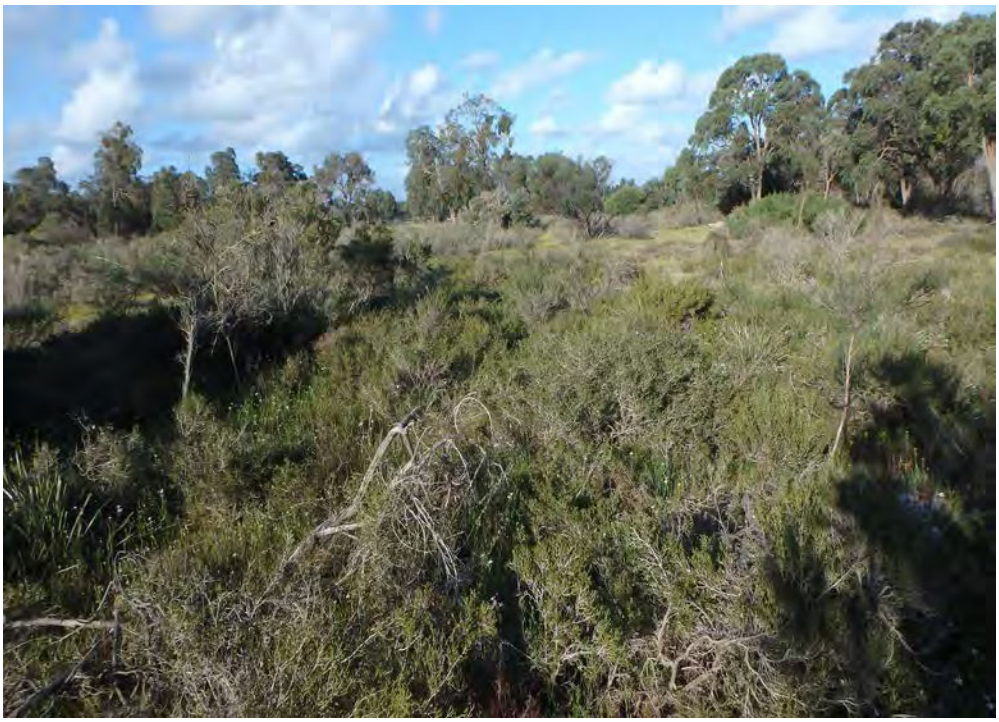


*Plate 8: Plant community **Ep** in 'good' condition.*



*Plate 9: Plant community **ErMp** in 'degraded' condition*



*Plate 10: Plant community **Mp** in 'degraded' condition*



*Plate 11: Plant community **Mr** in 'good' condition. Soil indentations show evidence of winter inundation.*



*Plate 12: Plant community **Ms** in 'good' condition*



*Plate 13: Plant community **VdSi** in 'good' condition*



Plate 14: Cleared vegetation in 'completely degraded' condition

4.3.3 Vegetation condition

The most intact native vegetation was located in the south-eastern portion of the site (approximately 7.5 ha of the **BAfCcEm** plant community). This portion of the **BAfCcEm** vegetation was mapped as being in 'very good' condition as it retains the structure expected of a banksia woodland community and has moderate native species diversity. Past disturbance of this area is evident from historical aerial photography, sparser than expected native understorey cover and through the presence of weeds. Portions of the **BAfCcEm** vegetation in the southern portion of the site were mapped as being in 'good' or 'degraded' condition due to higher weed cover and lower native species cover.

The **VdSi**, **Ep** and **Ms** vegetation comprise small patches in the southern portion of the site that show evidence of historical clearing but have been recolonised by various native species from the adjacent **BAfCcEm** vegetation. The majority of the **VdSi**, **Ep** and **Ms** vegetation was mapped as being in 'good' condition due to the high cover of a small number of native species and relatively low weed densities. One area of the **VdSi** vegetation was mapped as being in 'degraded' condition due to higher weed cover and sparser native species.

The **Mr** vegetation in the north-western corner of the site comprises an intact tall shrubland layer, over scattered patches of intact understorey wetland species. The areas of **Mr** vegetation with dense native understorey species were mapped as being in 'good' condition due to the small size of the intact patches, and the remainder was mapped as being in 'degraded' condition as the understorey was dominated by weed species.

The **CcMp** and **ErMp** vegetation in the northern half of the site consist of native trees over scattered native shrubs and dense pasture weeds. The **CcMp** and **ErMp** vegetation was mapped as being in

'degraded' condition as it lacks understory structure and has very low native species diversity. Past disturbance and clearing is particularly evident in these areas.

Remaining areas in the site are in 'completely degraded' condition and consist of bare ground and non-native species such as pasture grasses and planted trees (particularly **Eucalyptus camaldulensis*). The airstrips and sandy tracks within the site were also mapped as being in 'completely degraded' condition.

The extent of vegetation by condition category is detailed in **Table 6** and shown in **Figure 5**.

Table 7: Extent of vegetation condition categories within the site

Condition category (Keighery 1994)	Size (ha)
Pristine	0
Excellent	0
Very good	7.51
Good	13.69
Degraded	56.69
Completely degraded	31.85

4.3.4 Floristic community types

Whilst the vegetation showed high similarity to a number of FCTs, plant community **BAfCcEm** was considered most likely to represent FCT 21a 'Central *Banksia attenuata – Eucalyptus marginata* woodlands'. Samples within this community showed 37% to 47% similarity to Gibson *et al.* (1994) sites representing this FCT as shown in **Table 7**. Plant communities **Ep**, **Ms** and **VdSi** were also considered to represent disturbed forms of FCT 21a.

Plant communities **ErMp** and **CcMp** were considered to represent FCT 11 'wet forests and woodlands'. Samples R5, R9 and R12 clustered with FCT 11 with 24% to 30% similarity (**Table 7**).

Plant community **Mr** was determined to represent FCT 13 'deeper wetlands on heavy soils'. Sample Q10 clustered with a Gibson *et al.* (1994) site representing FCT 13 with 45% similarity.

Plant community **Mp** was too degraded to assign to an FCT.

The relevant portions of the cluster dendrograms are provided in **Appendix E**.

Table 8: Plant community and likely FCT represented within the site for each sample

Plant community	Sample unit	Most similar Gibson *et al.* (1994) sites	Similarity (%)	Most likely floristic community type (FCT)	Reservation and conservation status (Gibson *et al.* 1994)
BAfCcEm	Q2^	TWIN-8 (FCT 21c)	47	FCT 21a: Central *Banksia attenuata – Eucalyptus marginata* woodlands	Well reserved Low risk
		LOW07 (FCT 21c)	45		
		HARRY-5 (FCT 21a)	44		
		YULE-1 (FCT 23a)	42		
	R3^	WOODV-1 (FCT 28)	40		
		LOW12B (FCT 21a)	37		
	Q8^	LOW04 (FCT 21a)	47		
		NEER-2 (FCT 28)	46		
		HARRY-5 (FCT 21a)	44		
	R13^	HYMUS04 (FCT 21c)	45		
		LOW07 (FCT 21c)	44		
		FL-6 (FCT 21c)	43		
		LOW04 (FCT 21a)	41		
Ep	Q6^	HARRY-5 (FCT 21a)	37		
VdSi	R7^	FL-6 (FCT 21c)	29		
		YULE-1 (FCT 23a)	28		
		WHITE-1 (FCT 23a)	27		
ErMp	R9	MODO3 (FCT 11)	24	FCT 11: Wet forests and woodlands	Well reserved Low risk
		HYMUS01 (FCT 11)	24		
CcMp	R12^	ROWE01 (FCT 11)	26		
		HYMUS01 (FCT 11)	21		
	R5^	HYMUS01 (FCT 11)	30		
		NEER-22 (FCT 28)	27		
		LOW10A (FCT 21a)	27		
		WELL-1 (FCT 21a)	27		
Mr	Q10	PAGA-2 (FCT 13)	45	FCT 13: Deeper wetlands on heavy soils	Well reserved Low risk
	Q11^	ELLIS-1 (FCT 17)	38		
		PAGA-5 (FCT 17)	38		
		MTB-5 (FCT 17)	36		
		MCLART-1 (FCT 13)	35		

Note: ^ shows highest percent similarity to individual Gibson et al. (1994) samples rather than similarity to a cluster of samples.

4.3.5 Threatened and priority ecological communities

The following TEC and PEC were identified within the site:

- 'Banksia woodlands of the Swan Coastal Plain' TEC.
- 'Banksia woodlands of the Swan Coastal Plain' PEC.

The locations of the TEC and PEC within the site are shown in **Figure 6**.

The structure, composition and patch size of plant community **BAfCcEm** indicates that it represents the Commonwealth listed 'banksia woodlands of the Swan Coastal Plain' TEC, as outlined in **Table 8**.

Table 9: Criteria for determining presence of Banksia Woodlands of the Swan Coastal Plain TEC adapted from DoEE (2016a)

Criteria	Requirements for meeting criteria	Site implications
1. Must meet key diagnostic characteristics	A variety of factors relating to: • Location • Soils • Structure • Composition	• Site meets location and soils criteria. • The **BAfCcEm** vegetation includes the key diagnostic feature of a tree layer of *Banksia attenuata*, *Banksia menziesii* and *Banksia ilicifolia*. • The **BAfCcEm** vegetation within site also meets structure and composition criterion. FCT 21a is identified as one of the FCTs comprising the banksia woodland TEC.
2. Must meet condition thresholds	• A patch should at least meet the 'good' condition category (see **Table 1**)	• The **BAfCcEm** vegetation is present in 'very good', 'good' and 'degraded' condition, which meets this criterion. The conservation advice indicates that a single patch may include areas of variable condition, meaning parts of the **BAfCcEm** vegetation in 'degraded' condition may still be considered the TEC.
3. Must meet minimum patch size	Minimum size of patch: • Pristine=no minimum size • Excellent=0.5 ha • Very Good=1 ha • Good=2 ha	• The **BAfCcEm** vegetation in 'very good' condition comprises 7.51 ha and independently meets this criterion. • The **BAfCcEm** vegetation in 'good' condition comprises 11.49 ha and also independently meets this criterion. • The adjoining **BAfCcEm** vegetation in 'degraded' condition' would be viewed as contiguous and part of the same patch. Therefore the mapped 25.92 ha of **BAfCcEm** vegetation comprises a patch of the TEC.

Table 8: Criteria for determining presence of Banksia Woodlands of the Swan Coastal Plain TEC adapted from DoEE (2016a) (cont.)

Criteria	Requirements for meeting criteria	Site implications
4. Must incorporate surrounding context	• Breaks (e.g. tracks) < 30 m do not separate vegetation into separate patches • Buffer zones may apply (20-50 m recommended from patch edge) • The site should be thoroughly sampled (2 surveys in same spring). • Survey timing should be appropriate. • Surrounding environment should be considered (e.g. connectivity, conservation values, fauna habitat)	• Small scale tracks (<30 m wide) exist within the patch. • Intact native vegetation that is likely to represent the banksia woodland TEC exists to the south and east of the patch and is contiguous with the banksia woodland vegetation within the site. • This survey was conducted in September, October, January and March (both within and outside of the main flowering season) • The survey timing is appropriate for a detailed assessment. • Land surrounding the patch is a combination of rural, native vegetation and bare ground.
Result	The site supports 25.92 ha of the banksia woodland of the Swan Coastal Plain TEC.	

DBCA's *Priority Ecological Community* list indicates that the description, area and condition thresholds that apply to the Commonwealth-listed TEC of the same name also apply to the 'banksia woodlands of the Swan Coastal Plain' PEC (DBCA 2020). Therefore, a total of 25.92 ha of this PEC occurs within the site as shown in **Figure 6**.

The presence of tuart trees indicated that the Commonwealth listed 'tuart (*Eucalyptus gomphocephala*) woodlands and forests of the Swan Coastal Plain' TEC had potential to occur within the site. However, based on the assessment outlined in **Table 9**, the vegetation does not represent the TEC, or the State listed PEC of the same name.

Table 10: Assessment of site conditions against the tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain TEC criteria (adopted from (DoEE 2019))

Criteria	Requirements for meeting criteria	Site implications
1. Must meet key diagnostic characteristics	• Located in appropriate bioregion and landform. • At least 2 living established *E. gomphocephala* trees with DBH≥ 15cm present in canopy layer and with <60 m between the outer edges of canopies^ • Vegetation structure is a woodland, forest, open forest, open woodland, or mallee (various forms).	• Site is located in appropriate bioregion but is further east than the TEC is usually found to occur. • The patches contain one and two living established *E. gomphocephala* trees with DBH≥ 15cm present in canopy layer and with <60 m between the outer edges of canopies. The second patch meets this requirement. • Vegetation within the patch comprises a woodland to open woodland structure.

Table 9: Assessment of site conditions against the tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain TEC criteria (adopted from (DoEE 2019)) (cont.)

Criteria	Requirements for meeting criteria	Site implications
2. Must meet size threshold	• A patch must be larger than 0.5 ha[#]	• The patches comprise 0.42 ha and 0.52 ha. The second patch meets this requirement.
3. Must meet condition thresholds	• Patches >5 ha: no condition threshold • Patches ≥0.5 – <2 ha: 'very high' or 'high' condition† • Patches ≥2 – ≤5 ha: 'very high', 'high' or 'moderate' condition†	• The patch is 0.52 ha and is subject to condition thresholds. The patch is in 'poor' condition with 30-40% native understorey which does not meet this criterion.
4. Must incorporate surrounding context	• Breaks (e.g. tracks, cleared areas) < 30 m do not separate vegetation into separate patches • The site should be thoroughly sampled in the appropriate season. • Survey timing should be appropriate. • Surrounding environment should be considered (e.g. connectivity, conservation values, fauna habitat)	• Breaks such as tracks exist within the patch but do not separate the patch. • The survey timing was sufficient to determine that the patch does not represent the TEC. • The surrounding area does not contain any other tuart trees.
Result	The site does not contain the tuart (*Eucalyptus gomphocephala*) woodlands and forests of the Swan Coastal Plain TEC.	

^Includes dead trees. Where species of dead tree is unclear it is assumed to be *E. gomphocephala* if its canopy is within 60 m of an identified *E. gomphocephala tree*. #Note that a patch comprises a 30 m buffer around the canopy of each *E. gomphocephala* canopy tree, may extend beyond a lot boundary and may include areas of bare ground, waterbodies and hardscape. †Using the condition scale provided in (DoEE 2019).

The likelihood of occurrence of TECs and PECs are provided in **Appendix C**.

No other TECs or PECs occur within the site.

4.3.6 Locally and regionally significant vegetation

Mature eucalypt trees (diameter at breast height larger than 500 mm) including *Corymbia calophylla* (marri), *Eucalyptus rudis* (flooded gum), *Eucalyptus marginata* (jarrah) and *Eucalyptus gomphocephala* (tuart) are present in the site. These trees have the potential to provide foraging, roosting and nesting habitat for threatened black cockatoos, along with other ecological services.

4.4 Species richness

A total of 130 species were recorded from 13 samples. A species accumulation curve derived from sample data is presented in **Plate 15**. After 13 samples the curve has begun to flatten. This indicates that a small proportion of species likely remain undetected by sampling.

Species richness was estimated in PRIMER v6 to be between 184 (Jacknife1) and 190 (Chao2). Based on the trend of the species accumulation curve approximately 50 to 60 samples would be required to capture that many species. Including the 27 additional species recorded opportunistically, a total of 157 species was recorded in the site. This indicates that between 82 and 85% of the estimated 184-190 species in the site were recorded. Considering the degraded nature of portions of the site and

the time spent sampling and searching the vegetation, the survey effort was considered to be adequate to prepare a near-comprehensive species inventory.

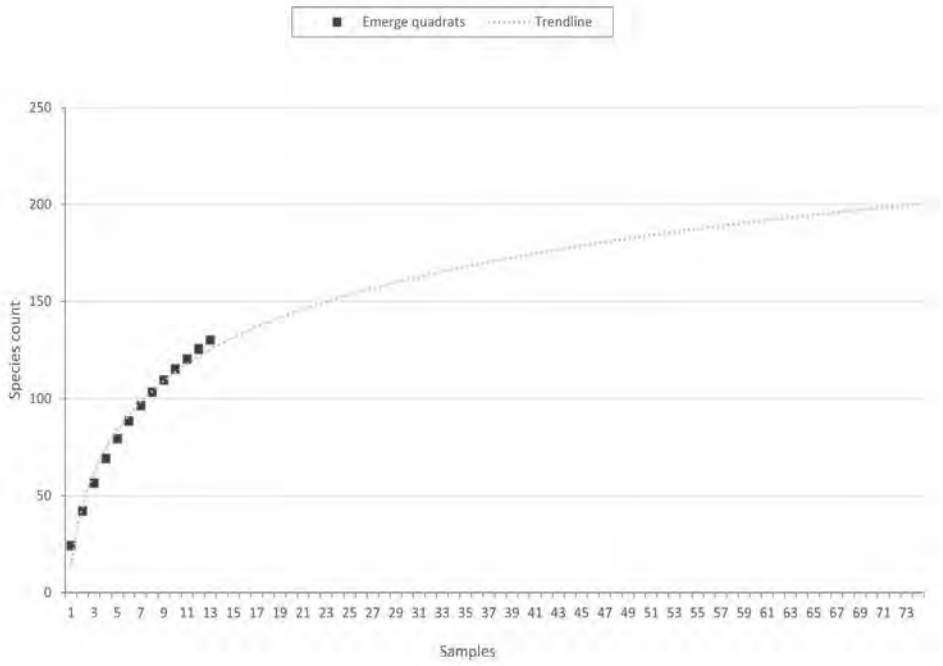


Plate 15: Species accumulation curve derived from sample data y= 43.165ln(x) + 14.447 R^2 = 0.9821).

5 Discussion

5.1 Threatened and priority flora

One priority flora species, *Verticordia lindleyi* subsp. *lindleyi* (P4) was recorded within the site. A population of five individuals were recorded in the central portion of the site. The location was different to the original location recorded by DBCA in 1998 and PGV Environmental in 2013. The older recorded location was searched extensively as part of this survey but no individuals were recorded.

Prior to the survey, based on background information, 12 threatened and 21 priority flora species were considered to potentially occur within the site. The field surveys in September, October, January and March were considered sufficient to determine that these species are unlikely to occur. This is because either suitable habitat does not occur or the species were not recorded during traverses within potentially suitable habitat. The timing of the surveys coincided with the main flowering period of the conservation significant flora identified in the desktop assessment and therefore they should have been visible, if present. The survey effort was considered sufficient to confirm the absence of additional threatened and priority species.

5.2 Vegetation condition

The method applied to assess vegetation condition was robust, as it combined the standard qualitative, categorical scheme of Keighery (1994), with the additional indicators for diversity and weed cover outlined in DoEE (2016b). Categorisation of vegetation into the categories outlined in **Table 1** was relatively straightforward as the vegetation clearly met the descriptions.

5.3 Floristic community type assignment

The FCT cluster analysis showed that samples within plant community **BAfCcEm** had high similarity to multiple FCTs, including FCTs 21a, 21c, 28 and 23a. FCT 21a is considered to be the most likely FCT present over the site as samples Q2, R3, Q8 and R13 all showed high similarity to this FCT. Sample R3 clustered with FCT 28, which is centred on the Spearwood dunes to the west of the site so is not considered likely to occur within the site. Sample Q8 showed highest similarity to FCT 21a and Q2 and R13 showed highest similarity to FCT 21c. FCT 21c tends to be more low-lying and is separated from FCT 21a by the presence of *Sowerbaea laxiflora* and *Styphelia propinqua* (Gibson *et al.* 1994), which are present within the **BAfCcEm** vegetation in the site. FCT 23a occurs on the Bassendean dunes and also has the potential to represent the vegetation on the site. However, FCT 21a is considered to be more likely as banksia woodland within Bush Forever site no. 200 directly adjacent was determined to represent this FCT (Government of WA 2000b).

Due to the presence of marri trees as a dominant species and occasional *Xanthorrhoea preissii* in the understorey, plant community **CcMp** had the potential to represent FCT 3c '*Corymbia calophylla* – *Xanthorrhoea preissii* woodlands'. However, the vegetation is degraded and there are limited additional species remaining to compare with the typical species recorded in FCT 3c, and the FCT analysis did not show a high similarity to FCT 3c. Only ten species were recorded in R12 of which

three were introduced species, whereas the average species richness of FCT 3c is 48 (Gibson *et al.* 1994). The low diversity of native species on the site in plant community **CcMp** does not allow a conclusive assessment on whether or not FCT 3c occurs or occurred on the site. However, the co-dominance of *Melaleuca preissiana* trees in the **CcMp** vegetation indicates that these areas are wetter than expected for FCT 3c as *Melaleuca preissiana* was not recorded in any of the quadrats identified in the Gibson *et al.* (1994) survey as FCT 3c. Two REWs are also present within these areas confirming that the area is lower lying than would be expected for FCT 3c.

5.4 Threatened and priority ecological communities

With regard to the Commonwealth banksia woodlands TEC, the **BAfCcEm** vegetation includes the key diagnostic feature of a tree layer of *Banksia attenuata*, *B. menziesii* and *B. illicifolia*. It also showed high similarity (27-47%) with four FCTs (FCT 21a, 21c, 23a and 28) that are all regional FCTs identified in the banksia woodland TEC conservation advice (DoEE 2016). However, to be considered the banksia woodland TEC a patch of banksia vegetation must also meet thresholds for condition and minimum patch size (refer to **Table 9**). The conservation advice states that a patch may include areas of variable condition and that the condition that is most representative should be used to assign overall condition of a patch.

For the **BAfCcEm** community, 7.51 ha was mapped as very good and 11.49 ha was mapped as good, while 6.91 ha was mapped as degraded. As there are no breaks of 30 m or more to separate the areas of varying condition, these areas were understood as a single patch. The area directly to the south and east also comprises banksia woodland as is included in Bush Forever site no. 200 and comprises approximately 100 ha. As Bush Forever site no. 200 was not surveyed as part of the current assessment, it has been conservatively assumed that the vegetation within Bush Forever site no. 200 is likely to be in very good or better condition. On this basis 'very good' condition was considered to be representative of the whole patch and the **BaAfCcEm** vegetation within the site was conservatively assessed as being in very good condition. The DoEE (2016b) conservation advice states that a patch of banksia woodland vegetation in good condition must be greater than 2 ha in size for it to be considered the TEC. Based on this, the **BAfCcEm** vegetation does meet the minimum patch size threshold.

5.5 Locally and regionally significant flora and vegetation

Flora and vegetation may be significant irrespective of protection under policy or legislation. Five key reasons that flora or vegetation within the site may be significant are listed below:

- The site is directly adjacent to Bush Forever site no. 200.
- The vegetation is associated with wetlands.
- The vegetation provides or contributes to an ecological linkage.
- The vegetation has potential value as habitat for threatened or priority fauna species. In particular, the **BAfCcEm** and **CcMp** vegetation contains mature *Corymbia calophylla*, *Eucalyptus marginata* and *Eucalyptus gomphocephala* trees that have the potential to provide nesting, foraging and/or roosting values for black cockatoos listed as threatened under the EPBC Act and BC Act.

- One flora species listed in *Bush Forever* 'significant flora of the Bassendean dunes in the Perth metropolitan region', *Verticordia lindleyi subsp. lindleyi*, occurs within the site (Government of WA 2000b).

6 Conclusions

The site shows evidence of considerable historical disturbance, with approximately 81% of the site containing 'completely degraded' or 'degraded' vegetation. The remaining 19% (21.2 ha) of the site supports native vegetation that is present in 'good' to 'very good' condition and has moderate species diversity.

One priority flora species, *Verticordia lindleyi* subsp. *lindleyi* (P4) was recorded in the central portion of the site. No other threatened or priority flora species are considered likely to occur.

A total of 25.92 ha of vegetation present in the southern half of the site represents the 'Banksia woodlands of the Swan Coastal Plain' Commonwealth listed TEC and State listed PEC of the same name (P3). This vegetation adjoins banksia woodland present to the south and south-east within Bush Forever site no. 200. No other TECs or PECs occur within the site.

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7.2 Online references

The online resources that have been utilised in the preparation of this report are referenced in **Section 7.1**, with access date information provided in **Table R 1**.

Table R 1 Access dates for online references

Reference	Date accessed	Website or dataset name
BoM (2022)	14 March 2022	Climate Data Online
DAWE (2021a)	14 March 2022	Threatened Ecological Communities
DAWE (2021b)	14 March 2022	Weeds of National Significance (WoNS)
DAWE (2022)	14 March 2022	Protected Matters Search Tool
DBCA (2022)	16 March 2022	NatureMap
WALIA (2022)	16 March 2022	Landgate Map Viewer
Western Australian Herbarium (2022)	16 March 2022	Florabase

Figures

Figure 1: Site Location

Figure 2: Hydrography, Soils and Topography

Figure 3: Environmental Features

Figure 4: Plant Communities

Figure 5: Vegetation Condition

Figure 6: Conservation Significant Values

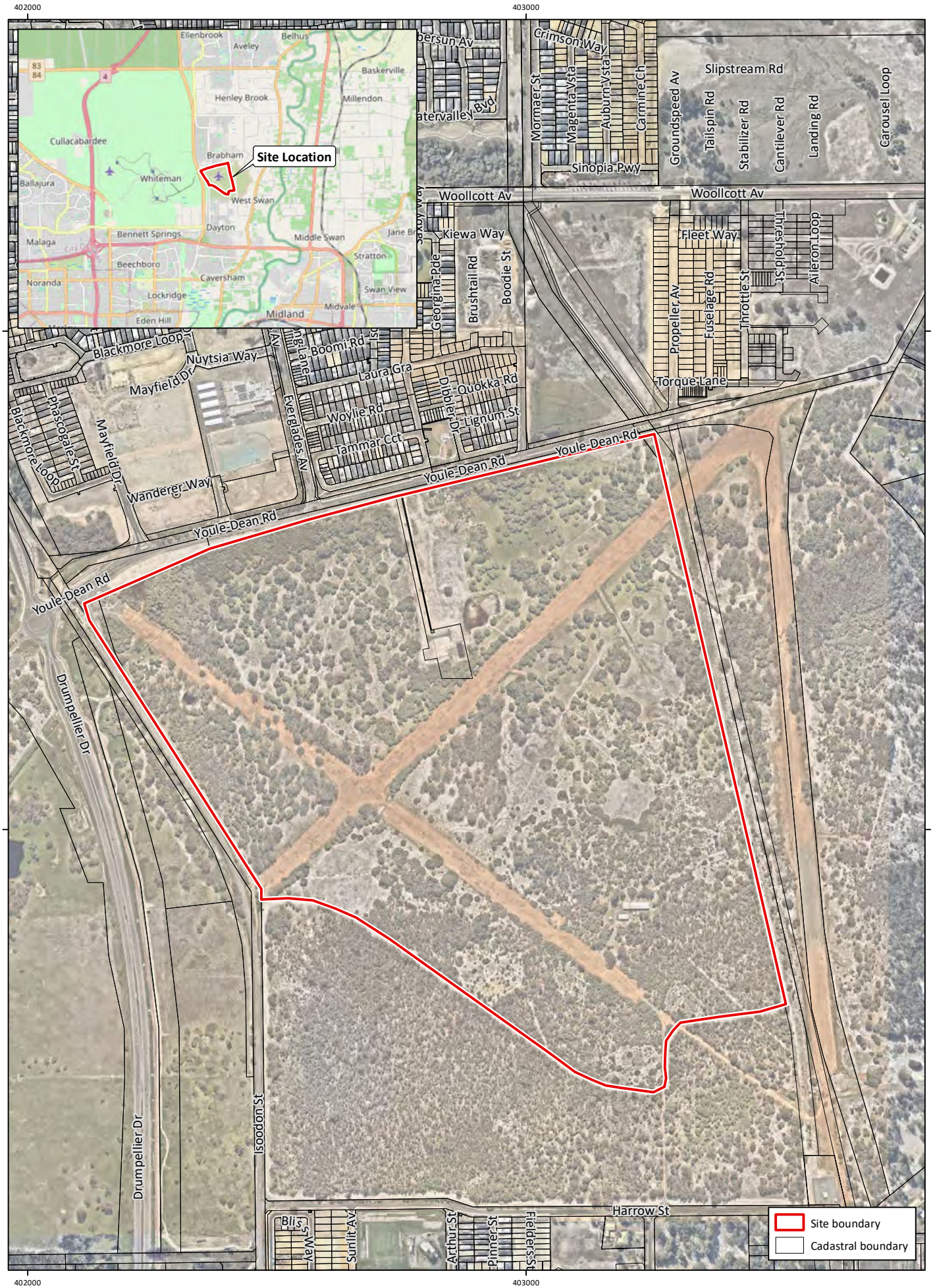


Figure 1: **Site Location**

Project:	Detailed Flora and Vegetation Assessment Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(27)--F190

Drawn:	GAR
Date:	20/05/2022
Checked:	SKP
Approved:	RAW
Date:	19/10/2022

N

0 100 200
Metres

Scale: 1:10,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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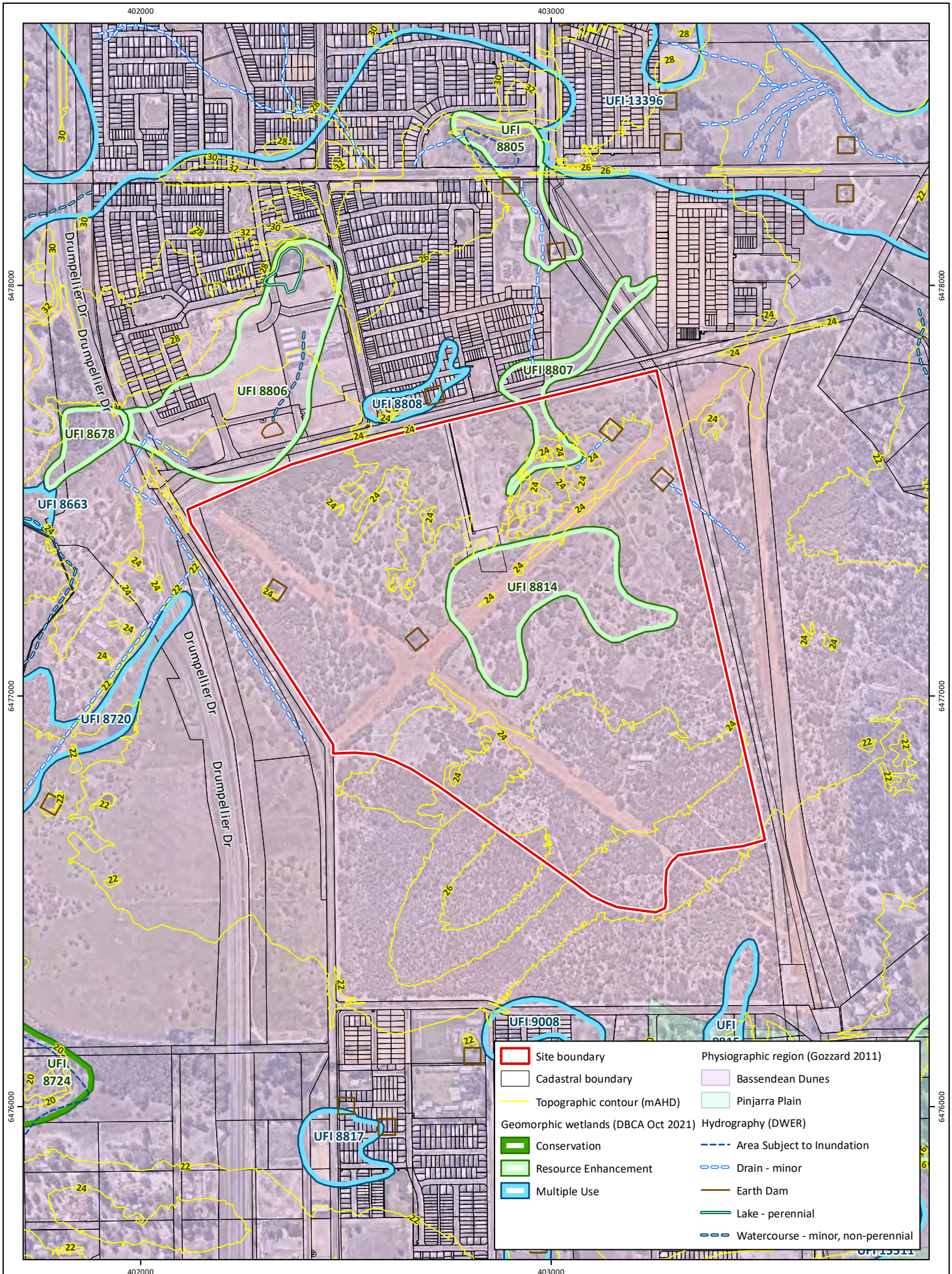


Figure 2: Hydrography, Soils and Topography

Project: Detailed Flora and Vegetation Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(27)--F191

Drawn:	GAR
Date:	20/05/2022
Checked:	SKP
Approved:	RAW
Date:	19/10/2022

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Metres

Scale: 1:12,000@A4

GDA 1994 MGA Zone 50

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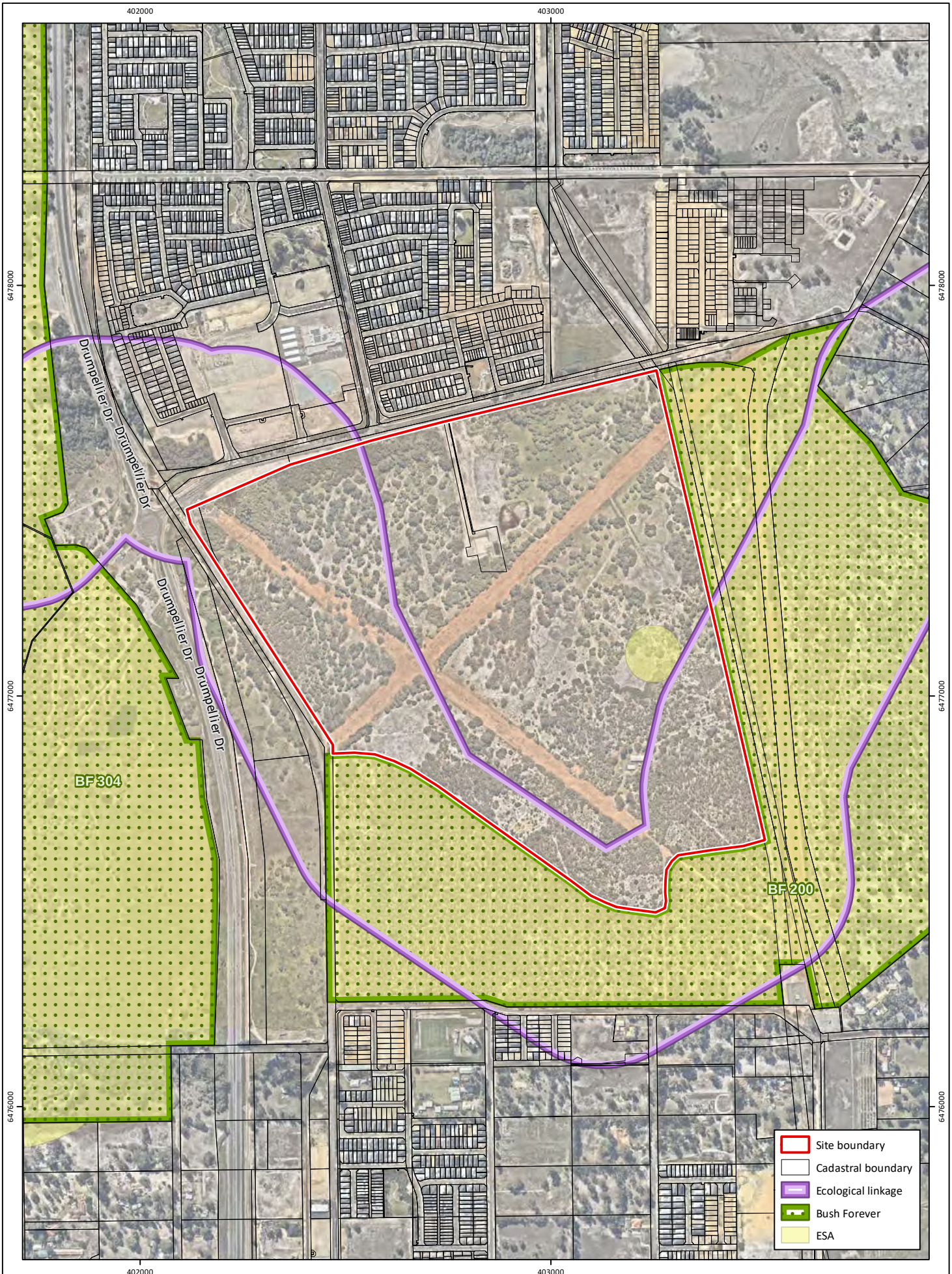


Figure 3: Environmental Features

Project: Detailed Flora and Vegetation Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number:
EP17-131(27)--F192

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Checked:	SKP
Approved:	RAW
Date:	19/10/2022

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Metres

Scale: 1:12,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

While Emerge Associates makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no responsibility for externally sourced data used.
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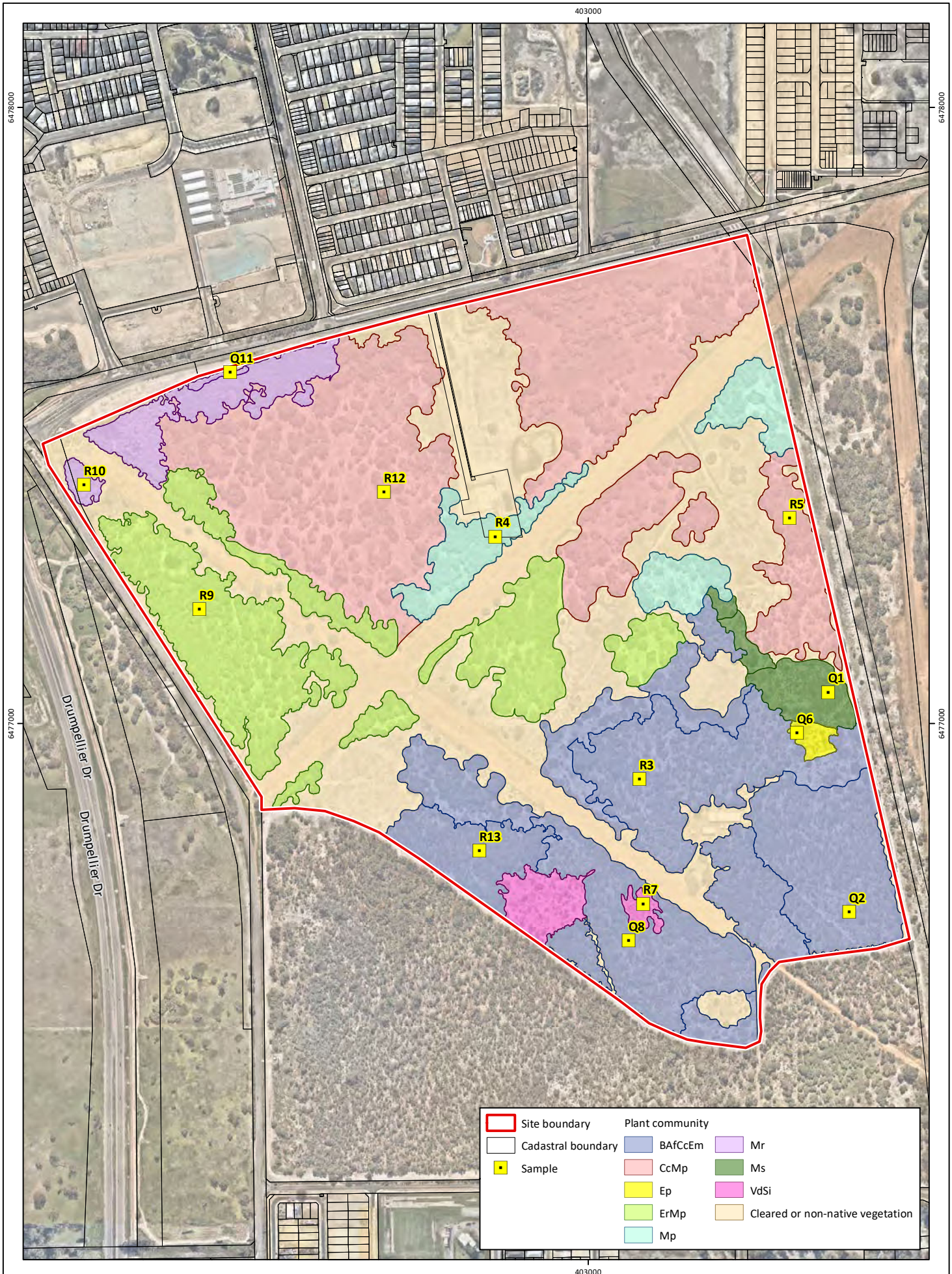


Figure 4: Plant Communities

Project: Detailed Flora and Vegetation Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(27)--F193

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Checked:	SKP
Approved:	RAW
Date:	19/10/2022

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Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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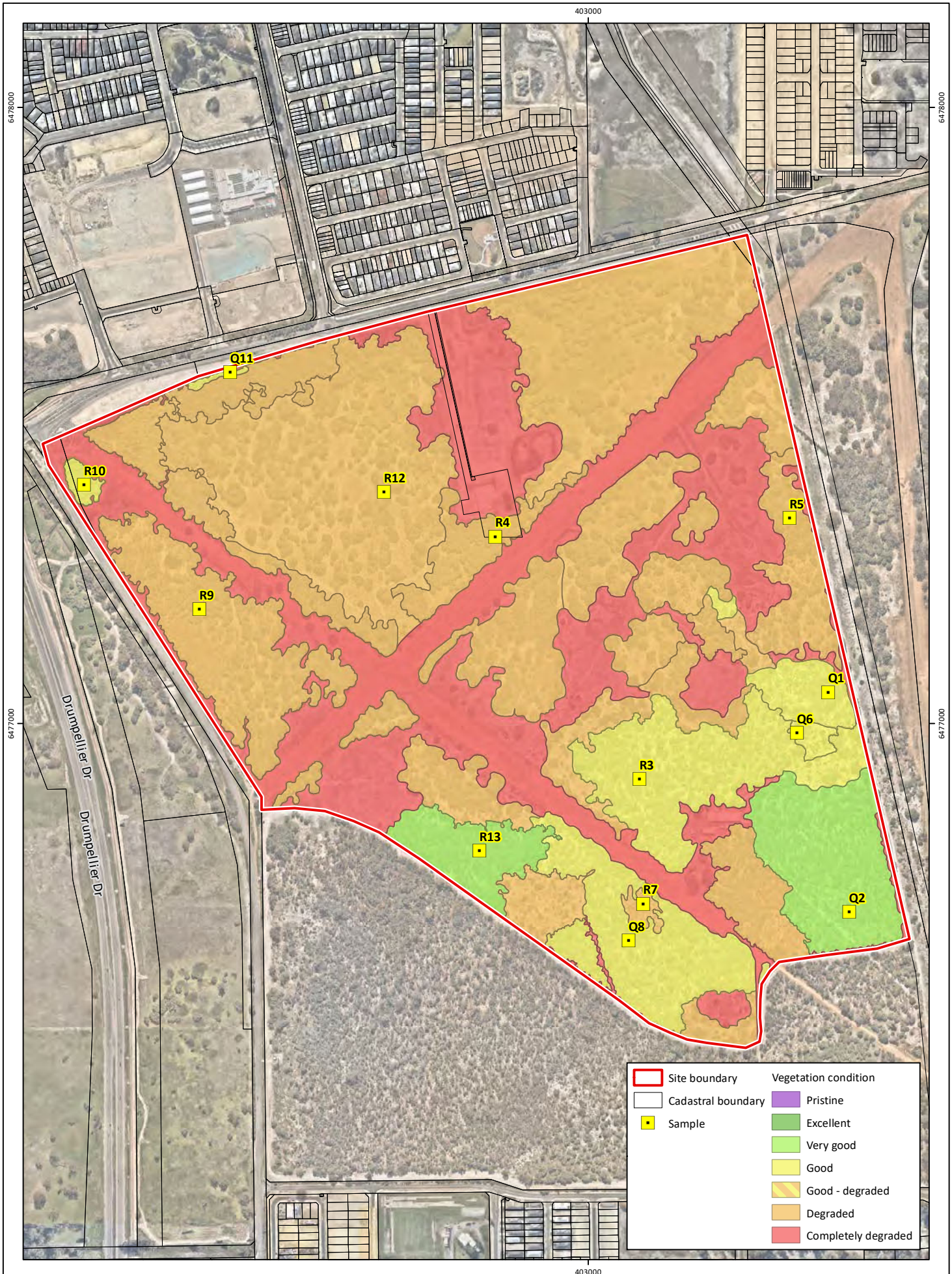


Figure 5: Vegetation Condition

Project: Detailed Flora and Vegetation Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(27)--F194

Drawn:	GAR
Date:	20/05/2022
Checked:	SKP
Approved:	RAW
Date:	19/10/2022

N

0 60 120 180
Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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Figure 6: Conservation Significant Values

Project: Detailed Flora and Vegetation Assessment
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number:
EP17-131(27)--F195

Drawn:	GAR
Date:	20/05/2022
Checked:	SKP
Approved:	RAW
Date:	19/10/2022

N

0 60 120 180
Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

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Appendix A

Additional Information

Conservation Significant Flora and Vegetation

Threatened and priority flora

Flora species considered rare or under threat warrant special protection under Commonwealth and/or State legislation. At the Commonwealth level, flora species can be listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Flora species considered 'threatened' pursuant to Schedule 1 of the EPBC Act are assigned categories according to their conservation status, as outlined in **Table 1**.

In Western Australia, plant taxa may be classed as 'threatened' under the *Biodiversity Conservation Act 2016* (BC Act) which is enforced by Department of Biodiversity Conservation and Attractions (DBCA). Threatened flora species are listed under sections 19(1) and 26(2) of the BC Act. It is an offence to 'take' or disturb threatened flora without Ministerial approval. Section 5(1)1 of the Act defines to take as including "… to gather, pluck, cut, pull up, destroy, dig up, remove, harvest or damage flora by any means" or to cause or permit the same to be done. The definition of threatened flora under the BC Act is provided in **Table 1**.

Section 43 of the BC Act requires that an occurrence of a threatened species or threatened ecological community is reported to DBCA where the occurrence has been identified as part of field work completed:

- as part of an assessment under Part IV of the *Environmental Protection Act 1986*; or
- in relation to an application for a clearing permit under the *Environmental Protection Act 1986* section 51E(1)(d).

Penalties apply to individuals and organisations that fail to provide accurate reports of threatened species or communities.

The *Biodiversity Conservation Regulations 2018* (BC Regulations 2018) came into effect on January 1 2019. The BC Regulations include provisions for licencing, charges, penalties and other provisions associated with the BC Act.

Flora species that may be threatened or near threatened but lack sufficient information to be listed under the BC Act may be added to the DBCA's *Priority Flora List* (DBCA 2018c). Priority flora species are considered during State approval processes. Priority flora categories and definitions are listed in **Table 1**.

Table 1: Definitions of conservation significant flora species pursuant to the EPBC Act and BC Act and on DBCA's Priority Flora List (DBCA 2018c)

Conservation code	Description
EX†	Threatened Flora – Presumed Extinct Taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been destroyed more recently, and have been gazetted as such.
T^†	Threatened Flora – Extant Taxa which are declared to be likely to become extinct or is rare, or otherwise in need of special protection.
CR^	Threatened Flora – Critically Endangered Taxa which are considered to be facing an extremely high risk of extinction in the wild.
EN^	Threatened Flora – Endangered Taxa which are considered to be facing a very high risk of extinction in the wild.
VU^	Threatened Flora – Vulnerable Taxa which are considered to be facing a high risk of extinction in the wild.
P1	Priority One – Poorly Known Taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat e.g. road verges, urban areas, farmland, active mineral leases etc., or the plants are under threat, e.g. from disease, grazing by feral animals etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.
P2	Priority Two – Poorly Known Taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but urgently need further survey.
P3	Priority Three – Poorly Known Taxa which are known from several populations, and the taxa are not believed to be under immediate threat (i.e. not currently endangered), either due to the number of known populations (generally >5), or known populations being large, and either widespread or protected. Such taxa are under consideration for declaration as 'rare flora' but needs further survey.
P4	Priority Four – Rare Taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5-10 years.

^pursuant to the EPBC Act, †pursuant to the BC Act, on DBCA's *Priority Flora List*

Threatened and priority ecological communities

'Threatened ecological communities' (TECs) are recognised as ecological communities that are rare or under threat and therefore warrant special protection. Selected TECs are afforded statutory protection at a Commonwealth level under section 181 of the EPBC Act. TECs nominated for listing under the EPBC Act are considered by the Threatened Species Scientific Committee and a final decision is made by the Commonwealth Minister for the Environment. Once listed under the EPBC Act, communities are categorised as either 'critically endangered', 'endangered' or 'vulnerable' as defined in **Table 2**. Any action likely to have a significant impact on a community listed under the EPBC Act requires approval from the Minister for the Environment.

Within Western Australia TECs are determined by the Western Australian Threatened Ecological Communities Scientific Advisory Committee (WATECSAC) and endorsed by the State Minister for the Environment. The WATECSAC is an independent group comprised of representatives from organisations including tertiary institutions, the Western Australian Museum and DBCA. The TECs endorsed by the State Minister are published by DBCA (DBCA 2018b).

TECs are assigned to one of the categories outlined in **Table 2** according to their status (in relation to the level of threat). TECs are afforded direct statutory protection at a State level under the BC Act and BC Regulations. Ecological communities are listed under Section 27(1) and 33 of the BC Act. Their significance is also acknowledged through other state environmental approval processes such as 'environmental impact assessment' pursuant to Part IV of the *Environmental Protection Act 1986* (EP Act) and the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*.

Table 2: Categories of threatened ecological communities (English and Blyth 1997; DEC 2009)

Conservation code	Description
PD	Presumably Totally Destroyed An ecological community that has been adequately searched for but for which no representative occurrences have been located.
CE	Critically Endangered An ecological community that has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future.
E	Endangered An ecological community that has been adequately surveyed and is not critically endangered but is facing a very high risk of total destruction in the near future.
V	Vulnerable An ecological community that has been adequately surveyed and is not critically endangered or endangered but is facing a high risk of total destruction or significant modification in the medium to long-term future.

An ecological community that is under consideration for listing as a TEC, but does not yet meet survey criteria or has not been adequately defined may be listed as a 'priority ecological community' (PEC). PECs are categorised as priority category 1, 2 or 3 as described in **Table 3**. Ecological communities that are adequately known and are rare but not threatened, or meet criteria for 'near threatened', or that have been recently removed from the threatened list, are placed in 'priority 4'. These ecological communities require regular monitoring. Conservation dependent ecological communities are placed in 'priority 5' (DEC 2013). Listed PECs are published by DBCA (DBCA 2017b).

Table 3: Categories of priority ecological communities (DEC 2013)

Priority code	Description
P1	Priority One: Poorly known ecological communities Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤ 100ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.
P2	Priority Two: Poorly known ecological communities Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.
P3	Priority Three: Poorly known ecological communities (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: (ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or; (iii) communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc. Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.
P4	Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring. (i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands. (ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for a higher threat category. (iii) Ecological communities that have been removed from the list of threatened communities during the past five years.
P5	Priority Five: Conservation Dependent ecological communities Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Weeds

A number of legislative and policy documents exist in relation to weed management at state and national levels. The *Biosecurity and Agriculture Management Act 2007* (BAM Act) is the principle legislation guiding weed management in Western Australia and lists declared pest species. At a national level, the Australian government has compiled a list of 32 Weeds of National Significance (WoNS) (DoEE 2018), of which many are also listed under the BAM Act.

Declared Pests

Part 2.3.23 of the BAM Act requires a person must not; "*a) keep, breed or cultivate the declared pest; b) keep, breed or cultivate an animal, plant or other thing that is infected or infested with the declared pest; c) release into the environment the declared pest, or an animal, plant or other thing that is infected or infested with the declared pest; or d) intentionally infect or infest, or expose to infection or infestation, a plant, animal or other thing with a declared pest*".

Under the BAM Act, all declared pests are assigned a legal status, as described in **Table 7**. Species assigned to the 'declared pest, prohibited - s12' category are placed in one of three control categories, as described in **Table 8**.

The *Biosecurity and Agriculture Management Regulations 2013* specify keeping categories for species assigned to the 'declared pest - s22(2)' category, which relate to the purposes of which species can be kept, as well as the entities that can keep them. The categories are described in **Table 9**.

The Western Australian Organism List (WAOL) provides the status of organisms which have been categorised under the BAM Act (DPIRD 2020).

Table 4: Legal status of declared pest species listed under the BAM Act (DPIRD 2020)

Category	Description
Declared Pest Prohibited - s12	May only be imported and kept subject to permits. Permit conditions applicable to some species may only be appropriate or available to research organisations or similarly secure institutions.
Declared Pest s22(2)	Must satisfy any applicable import requirements when imported, and may be subject to an import permit if they are potential carriers of high-risk organisms. They may also be subject to control and keeping requirements once within Western Australia

Table 5: Control categories of declared pest species listed under the BAM Act (DPIRD 2020)

Category	Description
C1	Exclusion Not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2	Eradication Present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3	Management Established in Western Australia but it is feasible, or desirable, to manage them in order to limit their

Category	Description
	damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Table 6: Keeping categories of declared pest species listed under the BAM Act (DPIRD 2020)

Category	Description
Prohibited	Can only be kept under a permit for public display and education purposes, and/or genuine scientific research, by entities approved by the state authority.
Exempt	No permit or conditions are required for keeping.
Restricted	Organisms which, relative to other species, have a low risk of becoming a problem for the environment, primary industry or public safety and can be kept under a permit by private individuals.

Wetland Habitat

Geomorphic wetland types

On the Swan Coastal Plain DBCA (2017a) have used the geomorphic wetland classification system developed by Semeniuk (1987) and Semeniuk and Semeniuk (1995) to classify wetlands based on the landform shape and water permanence (hydro-period) as outlined in **Table 10**.

Table 7: Geomorphic Wetlands of the Swan Coastal Plain classification categories (DBCA 2017a)

Level of inundation	Geomorphology			
	Basin	Flat	Channel	Slope
Permanently inundated	Lake	-	River	-
Seasonally inundated	Sumpland	Floodplain	Creek	-
Seasonally waterlogged	Dampland	Palusplain	-	Paluslope

Wetland management categories

DBCA maintains the *Geomorphic Wetland of the Swan Coastal Plain* dataset (DBCA 2018a), which also categorises individual wetlands into specific management categories as described in **Table 11**.

Table 8: Geomorphic Wetlands of the Swan Coastal Plain classification categories (DBCA 2017a)

Management category	Description of wetland	Management objectives
Conservation (CCW)	Support high levels of attributes	Preserve wetland attributes and functions through reservation in national parks, crown reserves and state owned land. Protection provided under environmental protection policies.
Resource enhancement (REW)	Partly modified but still supporting substantial functions and attributes	Restore wetland through maintenance and enhancement of wetland functions and attributes. Protection via crown reserves, state or local government owned land, environmental protection policies and sustainable management on private properties.
Multiple use (MUW)	Few wetland attributes but still provide important hydrological functions	Use, development and management considered in the context of water, town and environmental planning through land care.

The management categories of wetland features are determined based on hydrological, biological and human use features. The DBCA document *A methodology for the evaluation of specific wetland types on the Swan Coastal Plain, Western Australia* (DBCA 2017a) details the methodology by which wetlands on the Swan Coastal Plain are assigned management categories based on a two tiered evaluation system, with preliminary and secondary evaluation stages. The preliminary evaluation aims to identify any features of conservation significance that would immediately place the wetland within the CCW management category. Examples of these significant features include presence on significant wetland lists, presence of TECs or PECs (Priority 1 and 2), presence of threatened flora and

over 90% of vegetation in good or better condition based on the Keighery (1994) scale. If such environmental values are identified the wetland would be categorised as CCW without further evaluation.

Should the preliminary evaluation indicate that no such features occur, the secondary evaluation and site assessment are then applied. In the secondary evaluation, an appropriate management category is determined through the assessment of a range of environmental attributes, functions and values.

Wetland reclassification

DBCA have a protocol for proposing changes to the wetland boundaries and management categories of the existing geomorphic wetland dataset (DEC 2007). The procedure involves a wetland desktop evaluation and site assessment which culminates in a recommended management category. Relevant information should be obtained in the optimal season for vegetation condition and water levels, which is usually spring (DEC 2007). In the case of larger wetlands that have undergone a degree of disturbance, a separate management category may be assigned to parts of the wetland in order to reflect the current values.

References

General references

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Department of Primary Industries and Regional Development (DPIRD) 2020, The Western Australian Organism List (WAOL), < https://www.agric.wa.gov.au/bam/western-australian-organism-list-waol>.

Appendix B

Conservation Significant Flora Species and likelihood of Occurrence Assessment

Species name	Level of significance		Life strategy	Habitat	Flowering period	Likelihood of occurrence
	WA	EPBC Act				
Calectasia cyanea	CR	CR	P	Heathland on white sand or laterite gravel over laterite. Known only from one population near Albany.	Jun-Oct	Unlikely
Drakaea elastica	CR	EN	PG	Bare patches of sand within otherwise dense vegetation in low-lying areas alongside winter-wet swamps. Typically in banksia woodland or thickets of Kunzea glabrescens.	late Sep-Oct/Nov, survey Jul-Aug	Unlikely
Grevillea curviloba	CR	EN	P	Winter wet, deep peaty grey sands over limestone at depth.	Sep-Oct	Unlikely
Calytrix breviseta subsp. breviseta	CR	EN	P	Seasonally wet sandy-clay soil on swampy flats	Oct-Nov	Unlikely
Synaphea sp. Pinjarra (R. Davis 6578)	CR	CR	P	White grey clayey sand on the edges of seasonally inundated low lying or swamp areas in dense wetland heath and shrubland.	Sep	Unlikely
Thelymitra dedmaniarum	CR	EN	PG	Red brown sandy loam with dolerite and granite outcrops.	Oct-Nov	Unlikely
Trithuria occidentalis	CR	EN	A	Partly submerged on the edge of shallow winter-wet clay pans in very open shrubland.	Oct-Nov	Unlikely
Caladenia huegelii	CR	EN	PG	Well-drained, deep sandy soils in lush undergrowth in a variety of moisture levels.	Sep-early Nov	Unlikely
Eucalyptus x balanites	CR	EN	P	Light coloured sandy soils over laterite. Habitat consists of gently sloping heathlands; open mallee woodland over shrubland (Population 2) or heathland with emergent mallees (population 1)	Oct - Feb	Unlikely
Synaphea sp. Fairbridge Farm (D. Papenfus 696)	CR	CR	P	Low woodland on grey, clayey sand with lateritic pebbles (Pinjarra Plain) near winter wet flats.	Sep-Nov	Unlikely
Grevillea curviloba subsp. incurva	EN	EN	P	Sand, sandy loam. Winter-wet heath.	Aug-Sep	Unlikely
Diplolaena andrewsii	EN	EN	P	Granite outcrops & hillsides.	Jul-Oct	Unlikely

Species name	Level of significance		Life strategy	Habitat	Flowering period	Likelihood of occurrence
	WA	EPBC Act				
Diuris purdiei	EN	EN	PG	Sand to sandy clay soils in areas subject to winter inundation.	late September to mid-October, but only after a summer or early autumn fire (Brown et al., 1998)	Unlikely
Darwinia foetida	EN	EN	P	Grey-white sand on swampy, seasonally wet sites.	Oct-Nov	Unlikely
Macarthuria keigheryi	EN	EN	P	Low-lying winter-wet damp grey/white sands in open patches.	Sep-Dec or Feb-Mar	Unlikely
Grevillea christineae	EN	EN	P	Clay loam, sandy clay, often moist.	Aug-Sep	Unlikely
Drakaea micrantha	EN	VU	PG	Open sandy patches often adjacent to winter-wet swamps.	Sept- early Oct	Unlikely
Thelymitra stellata	EN	EN	PG	Sandy loam, clay or gravel over laterite or gravel.	Sep-Nov	Unlikely
Anigozanthos viridis subsp. Terraspectans	VU	VU	P	Grey sand, clay loam. Winter-wet depressions.	Aug-Sep	Unlikely
Anthocercis gracilis	VU	VU	P	Steep granite slopes along the Darling Scarp in shallow, humis-rich sandy or loamy soils.	Sep-Oct, Apr	Unlikely
Conospermum undulatum	VU	VU	P	Sand and sandy clay soils, on flat or gently sloping sites between the Swan and Canning Rivers	May-Oct	Unlikely
Diuris drummondii	VU	VU	PG	In low-lying depressions in peaty and sandy clay swamps.	Nov-Jan	Unlikely
Chamelaucium lullfitzii	VU	EN	P	White yellow sand in low woodland. Dandaragan Plain	Oct-Nov	Unlikely
Andersonia gracilis	VU	EN	P	Seasonally damp, black sandy clay flats near or on the margins of swamps.	Sep-Nov	Unlikely
Diuris micrantha	VU	VU	PG	Dark grey-black sandy clay-loam in winter wet depressions or swamps. Often in shallow standing water.	Aug/Sep-early Oct	Unlikely

Species name	Level of significance		Life strategy	Habitat	Flowering period	Likelihood of occurrence
	WA	EPBC Act				
Eleocharis keigheryi	VU	VU	P	Clay or sandy loam in freshwater creeks and transient waterbodies such as seasonally wet clay pans.	Aug-Dec	Unlikely
Grevillea flexuosa	VU	VU	P	Red-brown sand with laterite & gravel, sand over granite, on hilltops, slopes and in gullies.	May-Oct	Unlikely
Bolboschoenus fluviatilis	P1	-	P	Floodplain with grey/brown wet sand.	Nov	Unlikely
Hydrocotyle striata	P1	-	A	Sand and clay in springs and creeklines.	Nov	Unlikely
Stachystemon sp. Keysbrook (R. Archer 17/11/99)	P1	-	P	White grey sand.	Oct	Unlikely
Acacia benthamii	P2	-	P	Sand, typically on limestone breakaways	Aug-Sept	Unlikely
Poranthera moorokatta	P2	-	A	Sandy or clay soils. Dampland or low sandy dunes.	Oct or Feb	Unlikely
Millotia tenuifolia var. laevis	P2	-	A	Granite or lateritic soils.	Sep-Oct	Unlikely
Phyllangium palustre	P2	-	A	Winter-wet claypans, low-lying seasonal wetlands on clay.	Oct-Nov	Unlikely
Lepyrodia curvescens	P2	-	P	Sand, laterite. Seasonally inundated swampland.	Sep-Nov	Unlikely
Acacia oncinophylla subsp. oncinophylla	P3	-	P	Granitic soils	Aug-Oct	Unlikely
Beaufortia purpurea	P3	-	P	Lateritic or granitic soils on rocky slopes.	Oct-Feb	Unlikely
Isopogon autumnalis	P3	-	P	Yellow-grey sand.	Feb,Mar,Apr,May or June	Unlikely
Carex tereticaulis	P3	-	P	Black peaty sand.	Sep-Oct	Unlikely
Eryngium sp. Subdecumbens (G.J. Keighery 5390)	P3	-	A	Clay in seasonal wetlands.	Sep-Nov	Unlikely
Halgania corymbosa	P3	-	P	Gravelly soils, soils over granite.	Aug-Nov	Unlikely
Haemodorum loratum	P3	-	P	Grey or yellow sand, gravel.	Nov	Unlikely
Lasiopetalum glutinosum subsp. glutinosum	P3	-	P	Brown clay loam on slopes	Sep-Dec	Unlikely
Thysanotus anceps	P3	-	P	White or grey sand, lateritic gravel, laterite.	Oct-Dec	Unlikely
Meionectes tenuifolia	P3	-	P	Clay loam in seasonally wet areas.	Oct-Dec	Unlikely

Species name	Level of significance		Life strategy	Habitat	Flowering period	Likelihood of occurrence
	WA	EPBC Act				
Myriophyllum echinatum	P3	-	A	Clay in winter-wet flats.	Nov	Unlikely
Pithocarpa corymbulosa	P3	-	P	Gravelly or sandy loam, amongst granite outcrops.	Jan-Apr	Unlikely
Schoenus capillifolius	P3	-	A	Brown mud in claypans.	Oct-Nov	Unlikely
Cyathochaeta teretifolia	P3	-	P	Grey sand, sandy clay in swamps and creek edges.	Oct-Jan	Unlikely
Schoenus sp. Waroona (G.J. Keighery 12235)	P3	-	A	Clay or sandy clay. Winter-wet flats.	Oct-Nov	Unlikely
Tetratheca pilifera	P3	-	P	Gravelly soils.	Aug-Oct	Unlikely
Byblis gigantea	P3	-	P	Sandy-peat swamps. Seasonally wet areas.	Sep-Jan	Unlikely
Stylidium trudgenii	P3	-	P	Grey sand, dark grey to black sandy peat. Margins of winter-wet swamps, depressions	Sep-Jan	Unlikely
Eryngium pinnatifidum subsp. Palustre (G.J. Keighery 13459)	P3	-	P	Grey brown sand or clay in winter wet flats.	Sep-Nov	Unlikely
Hydrocotyle lemnoides	P4	-	A	Floating in swamps.	Aug-Oct	Unlikely
Jacksonia sericea	P4	-	P	Calcareous and sandy soils on Swan Coastal Plain	Dec-Feb	Unlikely
Anigozanthos humilis subsp. chrysanthus	P4	-	P	Grey or yellow sand	Jul-Oct	Unlikely
Cyanicula ixioides subsp. ixioides	P4	-	P	Laterite, gravel.	Aug-Oct	Unlikely
Darwinia pimelioides	P4	-	P	Loam, sandy loam on granite outcrops.	Sep-Oct	Unlikely
Verticordia lindleyi subsp. lindleyi	P4	-	P	Sand and sandy clay in winter wet areas.	May or Nov-Jan	Recorded
Persoonia sulcata	P4	-	P	Lateritic or granitic soils.	Sep-Nov	Unlikely
Drosera occidentalis	P4	-	P	Flat, brown/white/yellow moist sand/clay/peat, often near swamps.	Oct-Dec/Jan	Unlikely
Senecio leucoglossus	P4	-	A	Gravelly lateritic or granitic soils on outcrops or slopes.	Aug-Dec	Unlikely
Thysanotus glaucus	P4	-	P	White, grey or yellow sand, sandy gravel.	Oct-Mar	Unlikely
Stylidium longitubum	P4	-	A	Sandy clay, clay. Seasonal wetlands.	Oct-Dec	Unlikely
Hypolaena robusta	P4	-	P	White sand. Sandplains	Sep-Oct	Unlikely
Schoenus griffinianus	P4	-	P	White sand.	Sep-Oct	Unlikely

Note: T=threatened, CE=critically endangered, E=endangered, V=vulnerable, P1=Priority 1, P2=Priority 2, P3=Priority 3, P4=Priority 4, P=perennial, PG=perennial geophyte, A=annual. Species considered to potentially occur within the site are shaded green

Appendix C

Species List

Family	Status	Species
Aizoaceae		
	*	*Carpobrotus edulis*
Amaranthaceae		
		Ptilotus polystachyus
Anarthriaceae		
		Lyginia barbata
		Lyginia imberbis
Apiaceae		
		Centella asiatica
Araceae		
	*, DP	*Zantedeschia aethiopica*
Araliaceae		
		Trachymene pilosa
Asparagaceae		
	*, DP	*Asparagus asparagoides*
		Laxmannia squarrosa
		Lomandra caespitosa
		Lomandra hermaphrodita
		Sowerbaea laxiflora
		Thysanotus manglesianus
Asteraceae		
	*	*Arctotheca calendula*
	*	*Cotula coronopifolia*
	*	*Dittrichia graveolens*
	*	*Erigeron bonariensis*
	*	*Hypochaeris glabra*
		Lagenophora huegelii
		Podotheca angustifolia
		Podotheca gnaphalioides
	*	*Quinetia urvillei*
		Senecio pinnatifolius var. *pinnatifolius*
		Siloxerus humifusus
	*	*Sonchus oleraceus*
	*	*Symphyotrichum squamatum*
	*	*Ursinia anthemoides*
	*	*Vellereophyton dealbatum*
		Waitzia suaveolens var. *suaveolens*
Boraginaceae		
	*, DP	*Echium plantagineum*
Campanulaceae		
		Lobelia anceps
	*	*Wahlenbergia capensis*
		Wahlenbergia preissii
Caryophyllaceae		
	*	*Petrorhagia dubia*
	*	*Silene gallica*
	*	*Stellaria media*

Family	Status	Species
Casuarinaceae		
		Allocasuarina fraseriana
Centrolepidaceae		
		Centrolepis drummondiana
Colchicaceae		
		Burchardia congesta
Crassulaceae		
		Crassula colorata
		Crassula decumbens
		Crassula glomerata
Cyperaceae		
		Baumea juncea
		Isolepis marginata
Dasypogonaceae		
		Dasypogon bromeliifolius
Dilleniaceae		
		Hibbertia huegelii
		Hibbertia hypericoides
		Hibbertia racemosa
Droseraceae		
		Drosera erythrorhiza
		Drosera glanduligera
		Drosera menziesii
		Drosera nitidula
Ericaceae		
		Leucopogon propinquus
Fabaceae		
	*	*Acacia longifolia*
		Acacia saligna
		Gompholobium tomentosum
		Jacksonia furcellata
		Jacksonia sternbergiana
		Kennedia prostrata
	*	*Lotus subbiflorus*
	*	*Misopates orontium*
	*	*Trifolium campestre* var. *campestre*
		Viminaria juncea
Geraniaceae		
	*	*Pelargonium capitatum*
Haemodoraceae		
		Conostylis aculeata subsp. *cygnorum*
		Haemodorum spicatum
Hemerocallidaceae		
		Arnocrinum preissii
		Corynotheca micrantha
Iridaceae		
	*	*Freesia alba × leichtlinii*
	*	*Gladiolus caryophyllaceus*

Family	Status	Species
Iridaceae (cont.)	*	*Hesperantha falcata*
	*, DP	*Moraea flaccida*
		Patersonia occidentalis
	*	*Romulea rosea*
Juncaceae		
	*	*Juncus microcephalus*
		Juncus pallidus
Juncaginaceae		
		Cycnogeton lineare
Lamiaceae		
	*	*Mentha pulegium*
Lauraceae		
		Cassytha flava
Loganiaceae		
		Phyllangium paradoxum
Loranthaceae		
		Amyema miquelii
		Nuytsia floribunda
Macarthuriaceae		
		Macarthuria australis
Montiaceae		
		Calandrinia sp.
Myrtaceae		
		Astartea scoparia
		Calytrix fraseri
		Corymbia calophylla
		Eremaea pauciflora var. *pauciflora*
	*	*Eucalyptus camaldulensis*
	Pl	*Eucalyptus gomphocephala*
		Eucalyptus marginata
		Eucalyptus rudis
		Eucalyptus todtiana
	*	*Eucalyptus* sp.
		Hypocalymma angustifolium
	*	*Leptospermum laevigatum*
		Melaleuca preissiana
		Melaleuca rhaphiophylla
		Melaleuca seriata
		Pericalymma ellipticum
		Scholtzia involucrata
		Verticordia densiflora var. *densiflora*
	P4	*Verticordia lindleyi* subsp. *lindleyi*
Oleaceae		
	*	*Olea europaea*
Orchidaceae		
		Caladenia flava
		Caladenia latifolia
	*	*Disa bracteata*

Family	Status	Species
Orchidaceae (cont.)		*Elythranthera brunonis*
		Leporella fimbriata
		Leptoceras menziesii
		Pterostylis pyramidalis
		Pterostylis sp.
		Pyrorchis nigricans
Orobanchaceae		
	*	*Parentucellia latifolia*
Oxalidaceae		
	*	*Oxalis purpurea*
Papaveraceae		
	*	*Fumaria capreolata*
Phyllanthaceae		
		Poranthera microphylla
Phytolaccaceae		
	*	*Phytolacca octandra*
Poaceae		
	*	*Aira praecox*
	*	*Aira* sp.
		Austrostipa compressa
	*	*Briza maxima*
	*	*Briza minor*
	*	*Bromus arenarius*
	*	*Ehrharta calycina*
	*	*Ehrharta longiflora*
		Microlaena stipoides
	*	*Pentameris airoides*
	*	*Poa annua*
		Sporobolus virginicus
	*	*Vulpia* sp.
Polygonaceae		
	*	*Rumex acetosella*
	*	*Rumex crispus*
Portulacaceae		
	*	*Portulaca oleracea*
Primulaceae		
	*	*Lysimachia arvensis*
Proteaceae		
		Banksia attenuata
		Banksia ilicifolia
		Banksia menziesii
		Petrophile linearis
		Stirlingia latifolia
Restionaceae		
		Alexgeorgea nitens
		Desmocladus flexuosus
		Hypolaena exsulca
		Leptocarpus decipiens

Family	Status	Species
Rubiaceae		
	*	*Galium murale*
Rutaceae		
		Philotheca spicata
Scrophulariaceae		
	*	*Dischisma capitatum*
Solanaceae		
	*	*Solanum nigrum*
Stylidiaceae		
		Levenhookia pusilla
		Levenhookia stipitata
		Stylidium androsaceum
		Stylidium neurophyllum
Typhaceae		
		Typha orientalis
Xanthorrhoeaceae		
		Chamaescilla corymbosa
		Xanthorrhoea brunonis
		Xanthorrhoea preissii
Zamiaceae		
		Macrozamia fraseri

*=non-native, Pl=planted

Appendix D

Conservation Significant Communities and Likelihood of Occurrence Assessment

Code	Community name	TEC/ PEC	Level of significance		Likelihood of occurrence
			State	EPBC Act	
Mound Springs	Assemblages of plants and invertebrate animals of tumulus (organic mound) springs of the Swan Coastal Plain	TEC	CR	EN	Does not occur
SCP3a	*Corymbia calophylla - Kingia australis* woodlands on heavy soils, Swan Coastal Plain	TEC	CR	CR	Does not occur
SCP3c	*Corymbia calophylla - Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain	TEC	CR	EN	Does not occur
SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain	TEC	CR	EN	Does not occur
SCP02	Southern wet shrublands	TEC	EN	-	Does not occur
SCP20a	*Banksia attenuata* woodlands over species rich dense shrublands	TEC	EN	-	Does not occur
Muchea Limestone	Shrublands and Woodlands on Muchea Limestone of the Swan Coastal Plain	TEC	EN	EN	Does not occur
SCP20b	*Banksia attenuata* and/or *Eucalyptus marginata* woodlands of the eastern side of the Swan Coastal Plain	TEC	EN	-	Does not occur
-	Claypans of the Swan Coastal Plain	TEC	-	CR	Does not occur
SCP07	Herb rich saline shrublands in clay pans	TEC	VU	CR	Does not occur
SCP08	Herb rich shrublands in clay pans	TEC	VU	CR	Does not occur
Banksia WL SCP	Banksia woodlands of the Swan Coastal Plain	PEC/ TEC	P3	EN	Present
Tuart WLs	Tuart (*Eucalyptus gomphocephala*) Woodlands and Forests of the Swan Coastal Plain ecological community	PEC/ TEC	P3	CR	Does not occur
SCP21c	Low lying *Banksia attenuata* woodlands or shrublands	PEC/ TEC	P3	EN	Not likely to occur
SCP22	*Banksia ilicifolia* woodlands	PEC/ TEC	P3	EN	Does not occur
SCP23b	Swan Coastal Plain *Banksia attenuata - Banksia menziesii* woodlands	PEC/ TEC	P3	EN	Does not occur
Coastal saltmarsh	Subtropical and Temperate Coastal Saltmarsh	PEC/ TEC	P3	VU	Does not occur
Central Granite Shrubland	Central Northern Darling Scarp Granite Shrubland Community	PEC	P4	-	Does not occur

Note: TEC=threatened ecological community, PEC=priority ecological community, CR=critically endangered, EN=endangered, VU=vulnerable, P3=priority 3, P4=priority 4

Appendix E

Species x Plant Community Matrix

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Acacia longifolia	X	X		X	X	X	X		
Acacia saligna						X			
Aira praecox	X						X		
Aira sp.	X			X					
Alexgeorgea nitens	X								
Allocasuarina fraseriana	X	X							
Amyema miquelii		X							
Arctotheca calendula	X	X	X		X		X		
Arnocrinum preissii	X								
Asparagus asparagoides	X	X			X		X		
Astartea scoparia				X					
Austrostipa compressa	X								
Banksia attenuata	X							X	
Banksia ilicifolia	X							X	
Banksia menziesii	X							X	
Baumea juncea						X			
Briza maxima	X		X	X			X		
Briza minor	X	X							
Bromus arenarius							X		
Burchardia congesta	X								
Caladenia flava	X		X					X	
Caladenia latifolia	X								
Calandrinia sp.	X								
Calytrix fraseri								X	
Carpobrotus edulis	X								
Cassytha flava			X						
Centella asiatica						X			
Centrolepis drummondiana	X		X						
Chamaescilla corymbosa	X								
Conostylis aculeata subsp. cygnorum							X		

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Corymbia calophylla	X	X							
Corynotheca micrantha	X			X					
Cotula coronopifolia						X			
Crassula colorata	X						X		
Crassula decumbens		X							
Crassula glomerata								X	
Cycnogeton lineare						X			
Dasypogon bromeliifolius	X	X							
Desmocladus flexuosus	X								
Disa bracteata	X								
Dischisma capitatum			X	X				X	
Dittrichia graveolens									X
Drosera erythrorhiza	X		X					X	
Drosera glanduligera							X		
Drosera menziesii	X								
Drosera nitidula								X	
Echium plantagineum					X				
Ehrharta calycina	X	X	X	X					
Ehrharta longiflora	X	X	X		X		X	X	
Elythranthera brunonis	X								
Eremaea pauciflora subsp. pauciflora			X						
Erigeron bonariensis		X		X					
Eucalyptus camaldulensis									X
Eucalyptus gomphocephala									X
Eucalyptus marginata	X								
Eucalyptus rudis				X	X	X			
Eucalyptus sp.	X								
Eucalyptus todtiana		X							
Freesia alba × leichtlinii			X						
Fumaria capreolata	X								

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Galium murale	X	X			X				
Gladiolus caryophyllaceus	X							X	
Gompholobium tomentosum	X								
Haemodorum spicatum			X					X	
Hesperantha falcata	X	X	X		X			X	
hibbertia huegelii	X								
Hibbertia hypericoides	X								
Hibbertia racemosa	X							X	
Hypocalymma angustifolium	X								
Hypochaeris glabra	X	X	X				X	X	
Hypolaena exsulca	X								
Isolepis marginata	X						X		
Jacksonia furcellata	X								
Jacksonia sternbergiana			X						
Juncus microcephalus						X			
Juncus pallidus				X		X			
Kennedia prostrata	X								
Lagenophora huegelii	X		X						
Laxmannia squarrosa								X	
Leporella fimbriata	X								
Leptocarpus decipiens						X			
Leptoceras menziesii	X								
Leptospermum laevigatum	X								
Leucopogon propinquus	X								
Levenhookia pusilla	X								
Levenhookia stipitata	X								
Lobelia anceps						X			
Lomandra caespitosa	X		X						
Lomandra hermaphrodita	X								
Lotus subbiflorus	X	X							

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Lyginia barbata	X		X						
Lyginia imberbis	X						X		
Lysimachia arvensis	X	X							
Macarthuria australis								X	
Macrozamia fraseri	X								
Melaleuca preissiana		X		X	X	X			
Melaleuca rhaphiophylla				X		X			
Melaleuca seriata	X		X				X		
Mentha pulegium						X			
Microlaena stipoides	X	X					X		
Moraea flaccida	X	X	X	X	X		X		
Nuytsia floribunda	X	X							
Olea europaea				X					
Oxalis purpurea	X								
Parentucellia latifolia			X						
Patersonia occidentalis	X		X	X					
Pelargonium capitatum		X							
Pentameris airoides							X		
Pericalymma ellipticum							X		
Petrophile linearis	X								
Petrorhagia dubia			X				X	X	
Philotheca spicata	X								
Phyllangium paradoxum	X								
Phytolacca octandra					X				
Poa annua						X			
Podotheca angustifolia	X								
Podotheca gnaphalioides	X		X				X	X	
Poranthera microphylla	X		X						
Portulaca oleracea						X			
Pterostylis pyramidalis	X								

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Pterostylis sp.	X								
Ptilotus polystachyus	X								
Pyrorchis nigricans	X						X		
Quinetia urvillei	X								
Romulea rosea	X						X		
Rumex acetosella	X			X					
Rumex crispus						X			
Scholtzia involucrata	X		X					X	
Senecio pinnatifolius var. pinnatifolius	X								
Silene gallica								X	
Siloxerus humifusus	X								
Solanum nigrum	X				X	X			
Sonchus oleraceus	X	X			X	X			
Sowerbaea laxiflora	X								
Sporobolus virginicus						X			
Stellaria media		X			X				
Stirlingia latifolia	X								
Stylidium androsaceum	X								
Stylidium neurophyllum	X								
Symphyotrichum squamatum						X			
Thysanotus manglesianus	X								
Trachymene pilosa	X	X	X						
Trifolium campestre var. campestre		X							
Typha orientalis						X			
Ursinia anthemoides	X	X	X	X			X	X	
Vellereophyton dealbatum									X
Verticordia densiflora subsp. densiflora	X			X			X	X	
Verticordia lindleyi subsp. lindleyi					X				
Viminaria juncea						X			
Vulpia sp.						X			

Species	Plant community								
	BAfCcEm	CcMp	Ep	ErMp	Mp	Mr	Ms	VdSi	Cleared
Wahlenbergia capensis	X								
Wahlenbergia preissii	X								
Waitzia suaveolens var. suaveolens	X		X	X				X	
Xanthorrhoea brunonis	X		X	X					
Xanthorrhoea preissii	X	X							
Zantedeschia aethiopica	X	X							

Appendix F

Sample Data

Vegetation Sample Data

Sample Name: Q1

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM Q1: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	403389.4909	NW corner northing:	6477051.032
Altitude (m):	25	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	no evidence	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/	Bare ground (%):	10
Rocks (%) and type:	No rocks	Soil colour:	grey/
Litter:	15% (twigs,leaves,)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q1

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM Q1: Page 2 of 2

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	opp
*	*Aira praecox*	0.5
*	*Arctotheca calendula*	2
*, DP, WoNS	*Asparagus asparagoides*	0.5
*	*Briza maxima*	opp
*	*Bromus arenarius*	2
	Conostylis aculeata subsp. cygnorum	1
	Crassula colorata	0.5
	Crassula colorata	0.5
	Drosera glanduligera	0.5
*	*Ehrharta longiflora*	2
*	*Hypochaeris glabra*	2
	Isolepis marginata	0.5
	Lyginia imberbis	1
	Melaleuca seriata	60
	Microlaena stipoides	0.5
*, DP	*Moraea flaccida*	opp
*	*Pentameris airoides*	0.5
	Pericalymma ellipticum	5
*	*Petrorhagia dubia*	0.5
	Podotheca gnaphalioides	2
	Pyrorchis nigricans	0.5
*	*Romulea rosea*	0.5
*	*Ursinia anthemoides*	1
	Verticordia densiflora subsp. densiflora	3

Vegetation Sample Data

Sample Name: Q2

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM Q2: Page 1 of 3

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	403423.323	NW corner northing:	6476693.613
Altitude (m):	20	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	no evidence	Disturbance:	low - weeds
Soil type/texture	sand/ with organic layer	Bare ground (%):	2
Rocks (%) and type:	No rocks	Soil colour:	grey/white
Litter:	70% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q2

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	opp
*	*Aira sp.*	0.1
	Allocasuarina fraseriana	5
	Arnocrinum preissii	opp
*, DP, WoNS	*Asparagus asparagoides*	opp
	Banksia attenuata	opp
	Banksia menziesii	20
	Burchardia congesta	0.1
	Caladenia flava	0.1
	Centrolepis drummondiana	opp
	Corymbia calophylla	15
	Crassula colorata	opp
	Drosera erythrorhiza	0.1
	Drosera menziesii	0.1
*	*Ehrharta calycina*	0.1
*	*Ehrharta longiflora*	0.1
*	*Gladiolus caryophyllaceus*	0.1
	Gompholobium tomentosum	opp
*	*Hesperantha falcata*	0.1
	Hibbertia hypericoides	opp
	Hibbertia hypericoides	20
*	*Hypochaeris glabra*	0.1
	Isolepis marginata	0.5
	Jacksonia furcellata	opp
	Lagenophora huegelii	0.1
	Leporella fimbriata	0.1
	Lomandra caespitosa	0.1
	Lyginia barbata	1
*	*Lysimachia arvensis*	0.1
	Macrozamia fraseri	2
	Melaleuca seriata	2
	Microlaena stipoides	0.1
	Nuytsia floribunda	opp
	Patersonia occidentalis	5
	Petrophile linearis	opp
	Podotheca angustifolia	opp

Vegetation Sample Data

Sample Name: Q2

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
	Podotheca angustifolia	opp
	Podotheca gnaphalioides	opp
	Poranthera microphylla	0.1
	Pyrorchis nigricans	opp
*	*Romulea rosea*	0.1
	Scholtzia involucrata	1
*	*Solanum nigrum*	0.5
	Stirlingia latifolia	1
	Stylidium androsaceum	0.1
	Stylidium neurophyllum	opp
	Trachymene pilosa	0.1
*	*Ursinia anthemoides*	0.1
	Waitzia suaveolens var. suaveolens	opp
	Xanthorrhoea brunonis	5
	Xanthorrhoea preissii	5
*, DP	*Zantedeschia aethiopica*	0.5

Vegetation Sample Data

Sample Name: R3

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	403082.8815	NW corner northing:	6476909.351
Altitude (m):	15	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/ with organic layer	Bare ground (%):	20
Rocks (%) and type:	No rocks	Soil colour:	grey/white
Litter:	70% (leaves,branches,logs)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R3

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Species Data

* denotes non-native species

Status	Confirmed name
	Allocasuarina fraseriana
*	*Arctotheca calendula*
	Banksia attenuata
	Banksia ilicifolia
	banksia menziesii
*	*Briza maxima*
	Caladenia flava
	Drosera erythrorhiza
*	*Ehrharta longiflora*
	Eucalyptus marginata
*	*Galium murale*
*	*Hesperantha falcata*
	hibbertia huegelii
*	*Hypochaeris glabra*
	Lagenophora huegelii
	Leporella fimbriata
	Leucopogon propinquus
*	*Lotus subbiflorus*
*	*Lysimachia arvensis*
	Microlaena stipoides
*, DP	*Moraea flaccida*
	Podotheca gnaphalioides
	Poranthera microphylla
*	*Rumex acetosella*
*	*Solanum nigrum*
	Sowerbaea laxiflora
	Stylidium androsaceum
	Trachymene pilosa

Vegetation Sample Data

Sample Name: R4

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM R4: Page 1 of 2

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	402849.0995	NW corner northing:	6477303.348
Altitude (m):	15	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/ with organic layer	Bare ground (%):	1
Rocks (%) and type:	No rocks	Soil colour:	black/
Litter:	25% (bark,leaves,twigs)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R4

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	
*	*Arctotheca calendula*	
*, DP, WoNS	*Asparagus asparagoides*	
*, DP, WoNS	*Echium plantagineum*	
*	*Ehrharta longiflora*	
	Eucalyptus rudis	
*	*Galium murale*	
*	*Hesperantha falcata*	
	Melaleuca preissiana	
*, DP	*Moraea flaccida*	
*	*Phytolacca octandra*	
*	*Solanum nigrum*	
*	*Sonchus oleraceus*	
*	*Stellaria media*	

Vegetation Sample Data

Sample Name: R5

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	403326.7382	NW corner northing:	6477333.682
Altitude (m):	14	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	no evidence	Disturbance:	high - clearing weeds
Soil type/texture	sand/	Bare ground (%):	2
Rocks (%) and type:	No rocks	Soil colour:	grey/
Litter:	60% (leaves,branches,twigs)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R5

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	
	Allocasuarina fraseriana	
*	*Arctotheca calendula*	
*, DP, WoNS	*Asparagus asparagoides*	
*	*Briza minor*	
	Corymbia calophylla	
	Crassula decumbens	
*	*Ehrharta longiflora*	
*	*Erigeron bonariensis*	
*	*Galium murale*	
*	*Hesperantha falcata*	
*	*Hypochaeris glabra*	
*	*Lotus subbiflorus*	
*	*Lysimachia arvensis*	
	Melaleuca preissiana	
	Microlaena stipoides	
*, DP	*Moraea flaccida*	
*	*Sonchus oleraceus*	
*	*Stellaria media*	
	Trachymene pilosa	
*	*Trifolium campestre var. campestre*	
*	*Ursinia anthemoides*	
*, DP	*Zantedeschia aethiopica*	

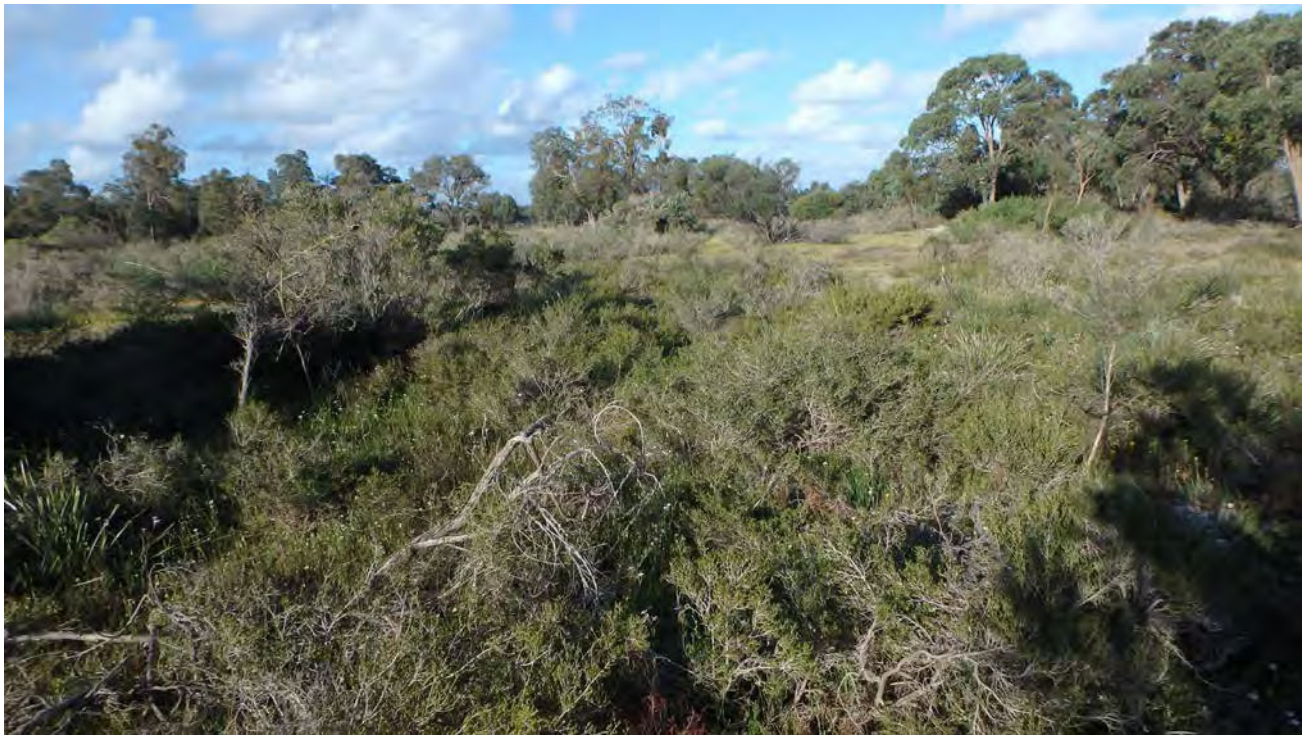
Vegetation Sample Data

Sample Name: Q6

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM Q6: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	403339.2952	NW corner northing:	6476984.711
Altitude (m):	14	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	no evidence	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/	Bare ground (%):	20
Rocks (%) and type:	No rocks	Soil colour:	grey/white
Litter:	10% (twigs,branches,)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q6

Project no.: EP17-131
Date: 29/09/2021 **Status** Non-permanent
Author: RAO,SCM Q6: Page 2 of 2

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Arctotheca calendula*	0.1
*	*Briza maxima*	0.1
	Caladenia flava	opp
	Cassytha flava	opp
	Centrolepis drummondiana	0.1
*	*Dischisma capitatum*	0.1
	Drosera erythrorhiza	0.1
*	*Ehrharta calycina*	0.1
*	*Ehrharta longiflora*	0.1
	Eremaea pauciflora subsp. pauciflora	30
*	*Freesia alba × leichtlinii*	0.1
	Haemodorum spicatum	opp
*	*Hesperantha falcata*	1
*	*Hypochaeris glabra*	2
	Jacksonia sternbergiana	1
	Lagenophora huegelii	0.1
	Lomandra caespitosa	0.1
	Lyginia barbata	1
	Melaleuca seriata	opp
	Melaleuca seriata	1
*, DP	*Moraea flaccida*	0.1
*	*Parentucellia latifolia*	0.1
	Patersonia occidentalis	5
*	*Petrorhagia dubia*	0.1
	Podotheca gnaphalioides	1
	Poranthera microphylla	opp
	Scholtzia involucrata	1
	Trachymene pilosa	1
*	*Ursinia anthemoides*	10
	Waitzia suaveolens var. suaveolens	0.1
	Xanthorrhoea brunonis	1

Vegetation Sample Data

Sample Name: R7

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP,ASF R7: Page 1 of 2

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	403089.4261	NW corner northing:	6476707.098
Altitude (m):	32	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	damp	Landform:	flat
Time since fire:	no evidence	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/	Bare ground (%):	35
Rocks (%) and type:	No rocks	Soil colour:	grey/white
Litter:	2% (twigs,,)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R7

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP,ASF

Species Data

* denotes non-native species

Status	Confirmed name
	Banksia attenuata
	Banksia ilicifolia
	Banksia menziesii
	Caladenia flava
	Calytrix fraseri
*	*Crassula glomerata*
*	*Dischisma capitatum*
	Drosera erythrorhiza
	Drosera nitidula
*	*Ehrharta longiflora*
*	*Gladiolus caryophyllaceus*
	Haemodorum spicatum
*	*Hesperantha falcata*
	Hibbertia racemosa
*	*Hypochaeris glabra*
	Laxmannia squarrosa
	Laxmannia squarrosa
	Macarthuria australis
*	*Petrorhagia dubia*
	Podotheca gnaphalioides
	Scholtzia involucrata
*	*Silene gallica*
*	*Ursinia anthemoides*
	Verticordia densiflora subsp. densiflora
	Waitzia suaveolens var. suaveolens

Vegetation Sample Data

Sample Name: Q8

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP,ASF Q8: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	403065.3853	NW corner northing:	6476647.341
Altitude (m):	31	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - tree deaths, loss of understorey
Soil type/texture	sand/ with organic layer	Bare ground (%):	2
Rocks (%) and type:	No rocks	Soil colour:	brown/grey
Litter:	80% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q8

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP,ASF

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	0.5
	Alexgeorgea nitens	0.1
	Allocasuarina fraseriana	10
*	*Arctotheca calendula*	0.1
*, DP, WoNS	*Asparagus asparagoides*	0.1
	Banksia attenuata	15
	Banksia menziesii	opp
	Burchardia congesta	opp
	Caladenia flava	0.1
	Desmocladus flexuosus	0.5
	Drosera erythrorhiza	2
	Eucalyptus marginata	10
*	*Eucalyptus sp.*	opp
	Hibbertia hypericoides	1
*	*Hypochaeris glabra*	0.1
	Kennedia prostrata	0.1
	Lagenophora huegelii	0.1
	Leptoceras menziesii	0.1
*	Leptospermum laevigatum	2
	Lomandra caespitosa	0.1
	Lomandra hermaphrodita	0.5
	Patersonia occidentalis	1
	Podotheca gnaphalioides	opp
	Poranthera microphylla	0.1
	Pterostylis sp.	0.1
	Quinetia urvillei	opp
*	Sonchus oleraceus	0.1
	Sowerbaea laxiflora	opp
	Stirlingia latifolia	1
	Stylidium androsaceum	opp
	Thysanotus manglesianus	0.1
	Trachymene pilosa	0.5
*	Ursinia anthemoides	0.1
	Waitzia suaveolens var. suaveolens	0.1
	Xanthorrhoea brunonis	1

Vegetation Sample Data

Sample Name: R9

Project no.: EP17-131
Date: 27/10/2021 **Status** Non-permanent
Author: SKP,ASF R9: Page 1 of 2

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	402368.3566	NW corner northing:	6477185.366
Altitude (m):	0	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/	Bare ground (%):	20
Rocks (%) and type:	No rocks	Soil colour:	grey/brown
Litter:	% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R9

Project no.: EP17-131
Date: 27/10/2021 **Status** Non-permanent
Author: SKP,ASF

Species Data

* denotes non-native species

Status	Confirmed name
*	*Acacia longifolia*
*	*Aira sp.*
	Astartea scoparia
*	*Briza maxima*
	Corynotheca micrantha
*	*Dischisma capitatum*
*	*Ehrharta calycina*
*	*Erigeron bonariensis*
	Eucalyptus rudis
	Juncus pallidus
	Melaleuca preissiana
	Melaleuca rhaphiophylla
*, DP	*Moraea flaccida*
*	*Olea europaea*
	Patersonia occidentalis
*	*Rumex acetosella*
*	*Ursinia anthemoides*
	Verticordia densiflora subsp. densiflora
	Waitzia suaveolens var. suaveolens
	Xanthorrhoea brunonis

Vegetation Sample Data

Sample Name: Q10

Project no.: EP17-131
Date: 27/10/2021 **Status** Non-permanent
Author: SKP,ASF Q10: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	402180.3721	NW corner northing:	6477387.139
Altitude (m):	0	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - adjacent clearing, weeds
Soil type/texture	sand/clay with organic layer	Bare ground (%):	1
Rocks (%) and type:	No rocks	Soil colour:	brown/
Litter:	% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q10

Project no.: EP17-131
Date: 27/10/2021 **Status** Non-permanent
Author: SKP,ASF

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	opp
	Acacia saligna	10
	Baumea juncea	0.5
	Centella asiatica	opp
*	*Cotula coronopifolia*	opp
	Cycnogeton lineare	opp
	Eucalyptus rudis	opp
	Eucalyptus rudis	opp
	Juncus pallidus	0.5
	Juncus pallidus	opp
	Melaleuca preissiana	opp
	Melaleuca rhaphiophylla	60
*	*Poa annua*	2
*	*Portulaca oleracea*	opp
*	*Rumex crispus*	0.5
*	*Solanum nigrum*	opp
*	*Sonchus oleraceus*	0.5
	Sporobolus virginicus	opp
*	*Symphyotrichum squamatum*	opp
	Typha orientalis	1
	Viminaria juncea	opp
*	*Vulpia sp.*	3

Vegetation Sample Data

Sample Name: Q11

Project no.: EP17-131
Date: 24/03/2022 **Status** Non-permanent
Author: SKP,MS Q11: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	402418.1838	NW corner northing:	6477570.538
Altitude (m):	0	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	slightly damp	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - adjacent clearing, weeds
Soil type/texture	sand/	Bare ground (%):	5
Rocks (%) and type:	No rocks	Soil colour:	grey/brown
Litter:	% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q11

Project no.: EP17-131
Date: 24/03/2022 **Status** Non-permanent
Author: SKP,MS

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
	Baumea juncea	10
	Centella asiatica	0.5
*	*Juncus microcephalus*	2
	Leptocarpus decipiens	3
	Lobelia anceps	1
	Melaleuca rhaphiophylla	75
*	*Mentha pulegium*	opp

Vegetation Sample Data

Sample Name: R12

Project no.: EP17-131
Date: 24/03/2022 **Status** Non-permanent
Author: SKP R12: Page 1 of 2

Quadrat and landform details

Sample type:	releve	Size:	other
NW corner easting:	402667.7501	NW corner northing:	6477376.158
Altitude (m):	0	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	dry	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	high - clearing weeds
Soil type/texture	sand/	Bare ground (%):	30
Rocks (%) and type:	No rocks	Soil colour:	Grey/
Litter:	% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: R12

Project no.: EP17-131
Date: 24/03/2022 **Status** Non-permanent
Author: SKP

Species Data

* denotes non-native species

Status	Confirmed name	Cover (%)
*	*Acacia longifolia*	5
	Amyema miquelii	2
	Corymbia calophylla	0.5
	Dasypogon bromeliifolius	1
*	*Ehrharta calycina*	1
	Eucalyptus todtiana	opp
	Melaleuca preissiana	60
	Nuytsia floribunda	opp
*	*Sonchus oleraceus*	1
	Xanthorrhoea preissii	1

Vegetation Sample Data

Sample Name: Q13

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP Q13: Page 1 of 2

Quadrat and landform details

Sample type:	quadrat	Size:	10 m x 10 m
NW corner easting:	402822.9252	NW corner northing:	6476793.435
Altitude (m):	0	Geographic datum/zone:	GDA94/Zone 50
Soil water content:	dry	Landform:	flat
Time since fire:	> 5 yrs	Disturbance:	moderate - clearing weeds
Soil type/texture	sand/	Bare ground (%):	10
Rocks (%) and type:	No rocks	Soil colour:	grey/white
Litter:	% (leaves,twigs,branches)	Vegetation condition:	very good



Vegetation Sample Data

Sample Name: Q13

Project no.: EP17-131
Date: 30/09/2021 **Status** Non-permanent
Author: SKP

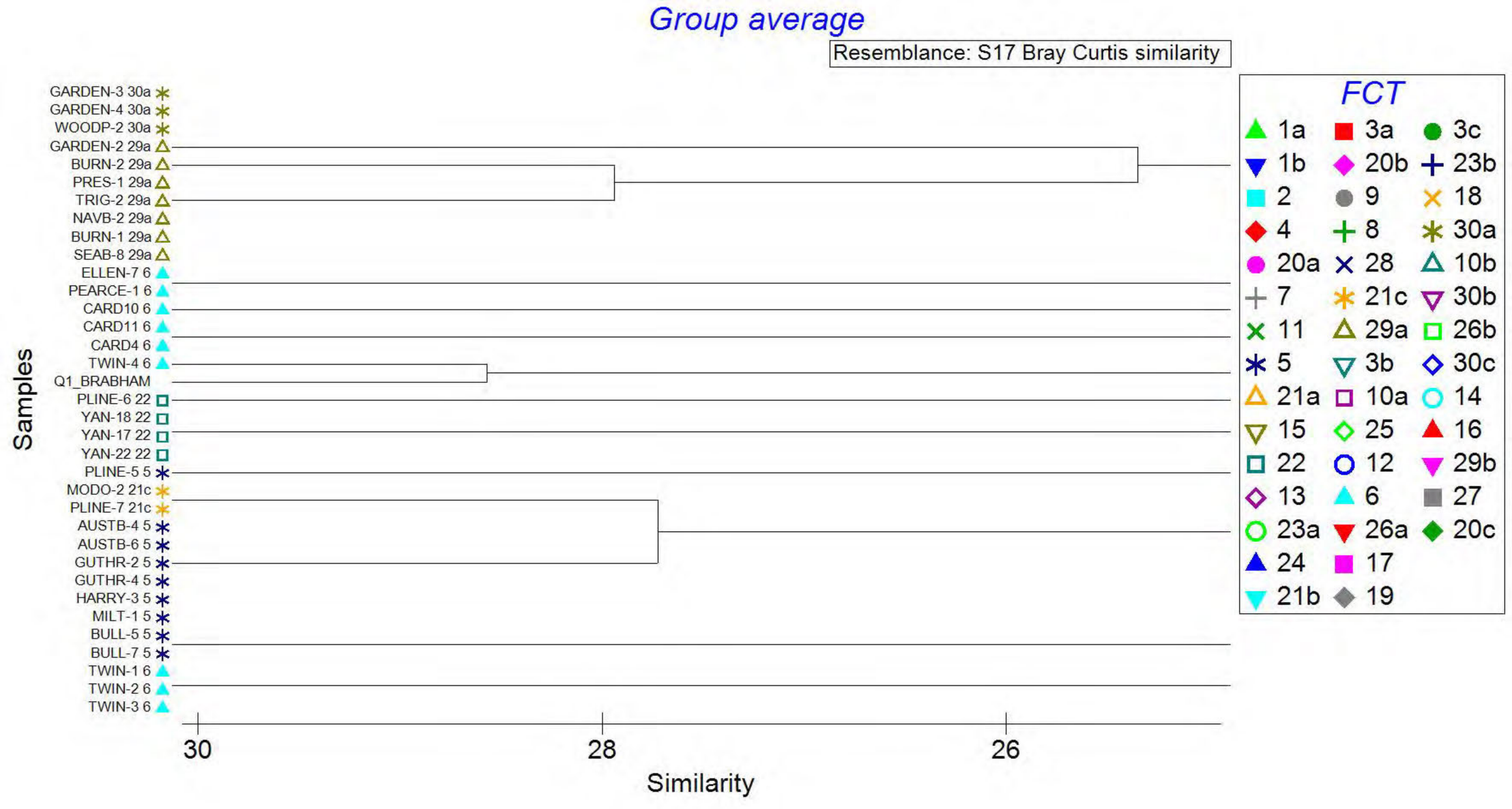
Species Data

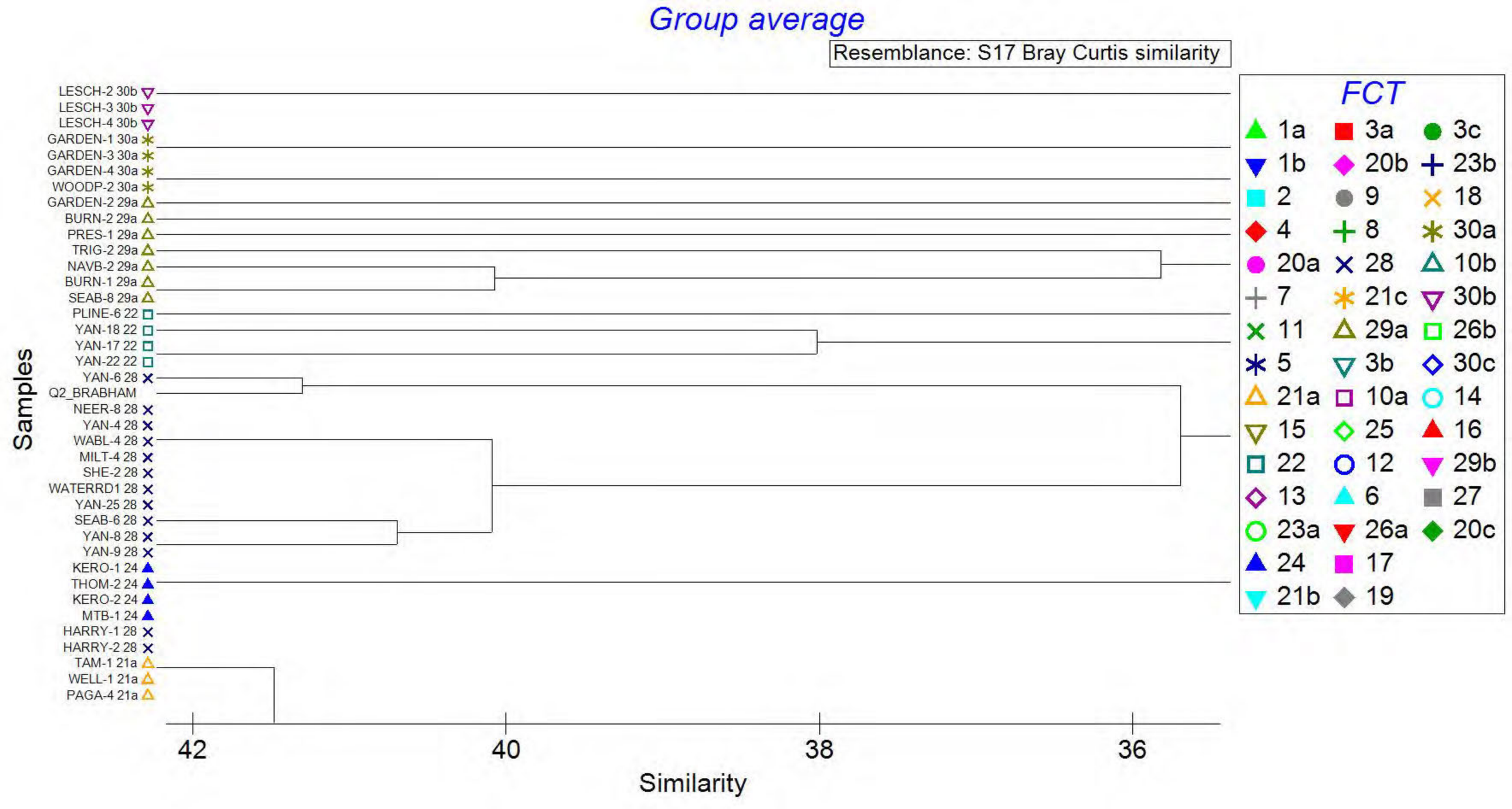
* denotes non-native species

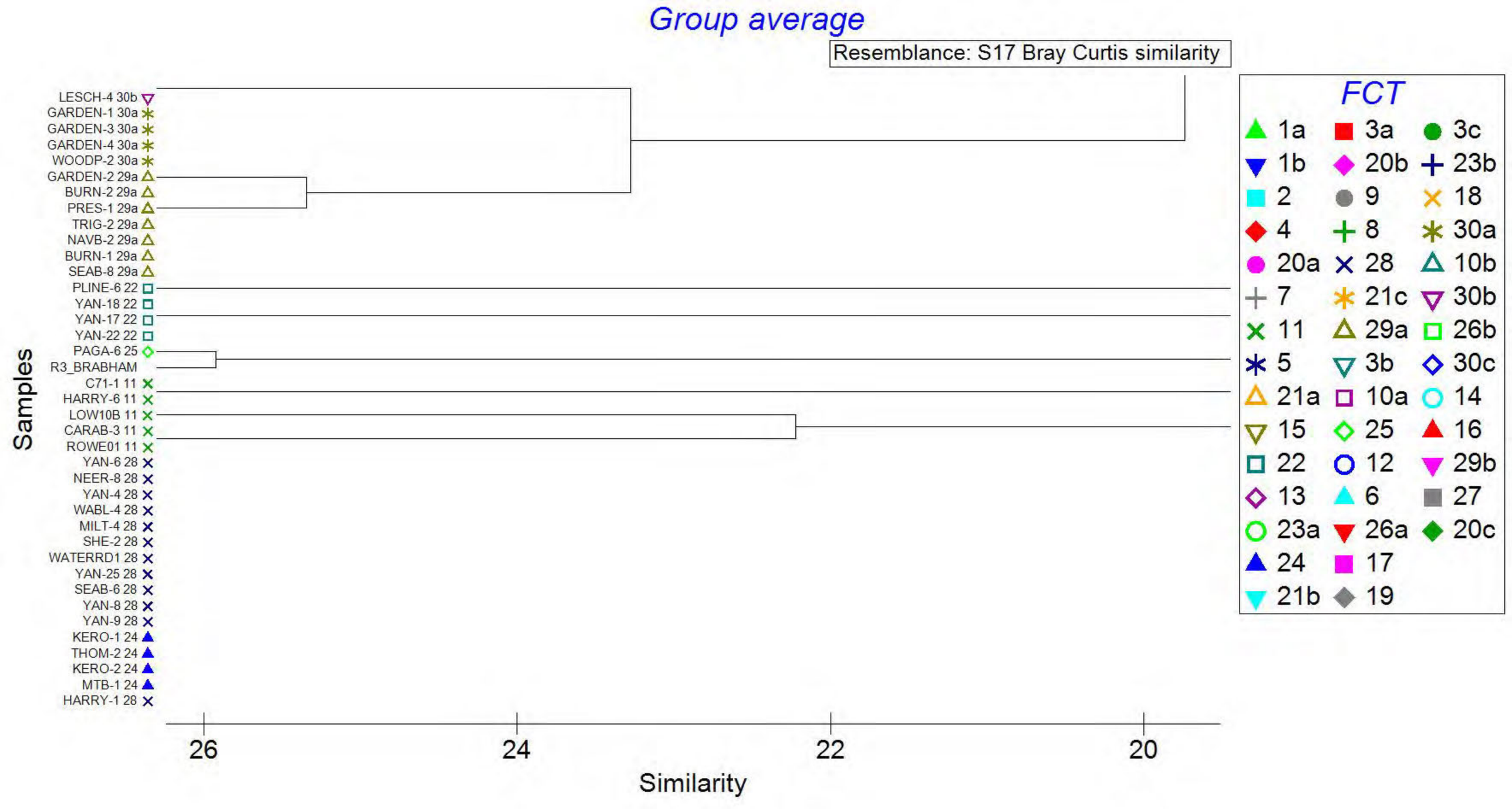
Status	Confirmed name
*	*Acacia longifolia*
	Alexgeorgea nitens
*	*Arctotheca calendula*
*, DP, WoNS	*Asparagus asparagoides*
	Banksia attenuata
	Banksia ilicifolia
	Banksia menziesii
*	*Briza maxima*
	Burchardia congesta
	Caladenia flava
	Corymbia calophylla
	Corynotheca micrantha
	Dasypogon bromeliifolius
	Desmocladus flexuosus
*	*Gladiolus caryophyllaceus*
	Hibbertia hypericoides
	Hibbertia racemosa
*	*Hypochaeris glabra*
*	*Leptospermum laevigatum*
	Lomandra hermaphrodita
	Nuytsia floribunda
	Patersonia occidentalis
	Podotheca gnaphalioides
	Poranthera microphylla
	Ptilotus polystachyus
	Stirlingia latifolia
	Thysanotus manglesianus
	Trachymene pilosa
*	*Ursinia anthemoides*
	Verticordia densiflora subsp. densiflora

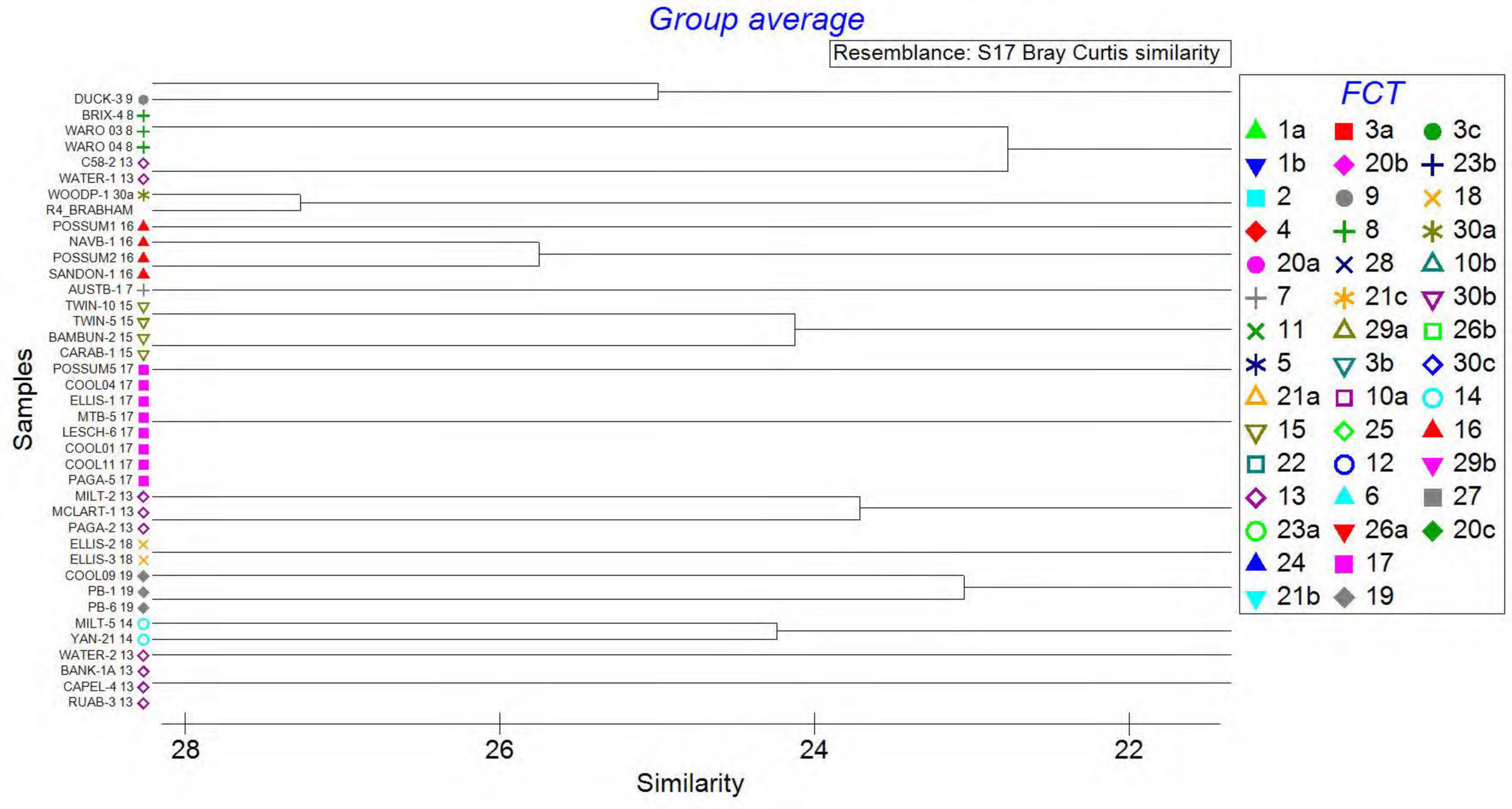
Appendix G

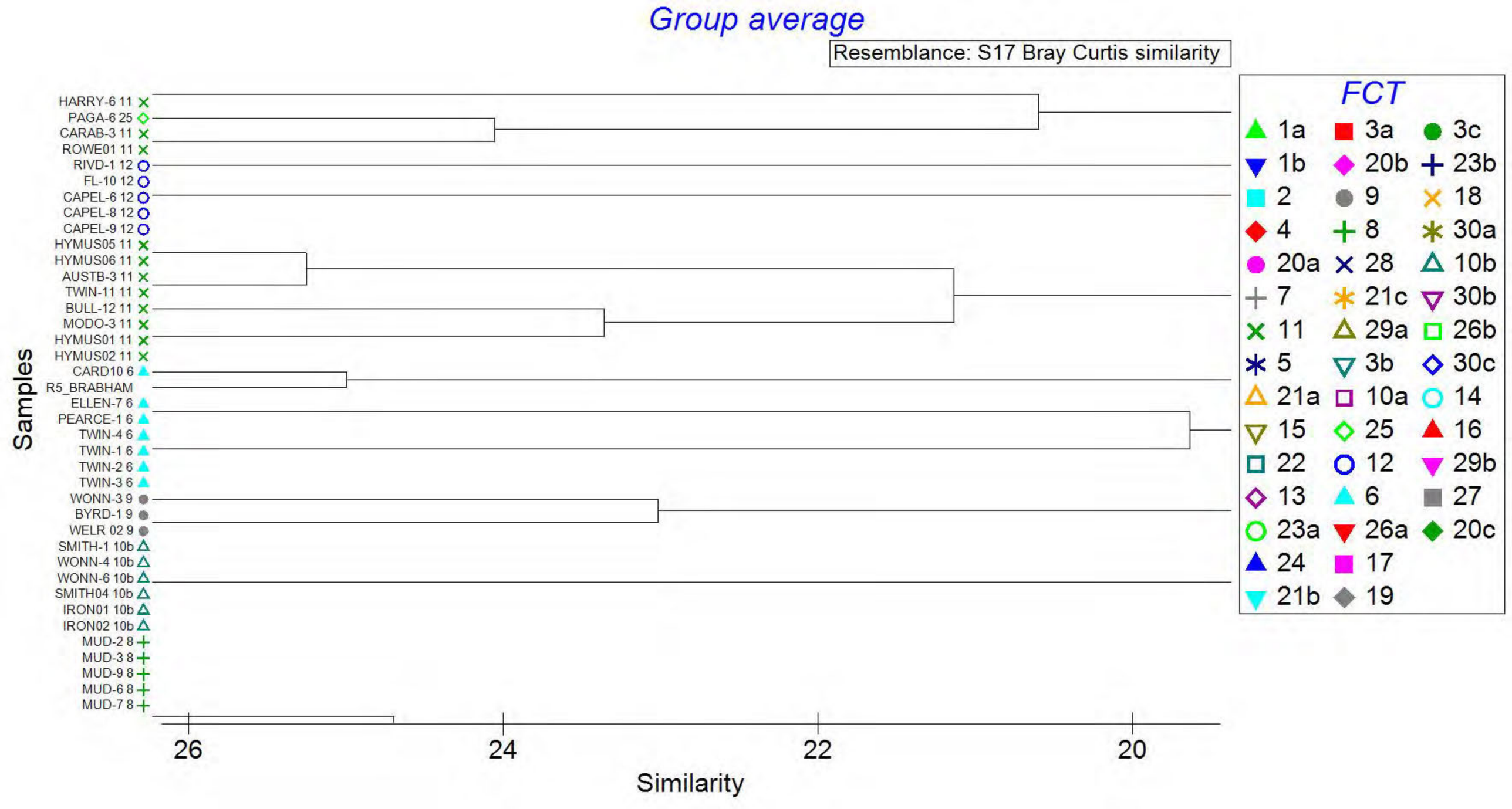
Cluster Dendrograms

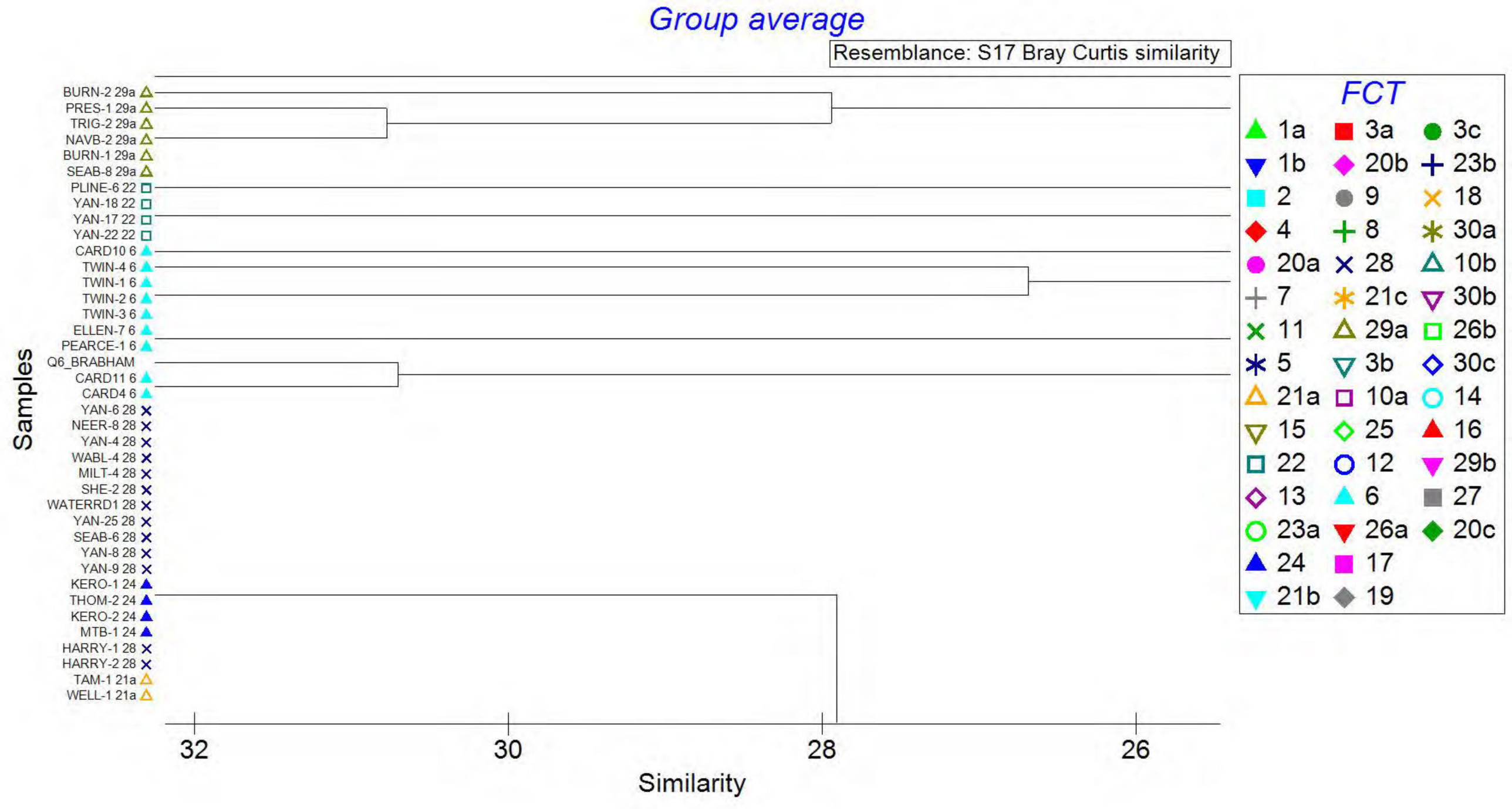

Group average
Resemblance: S17 Bray Curtis similarity
GARDEN-3 30a
GARDEN-4 30a
WOODP-2 30a
GARDEN-2 29a
BURN-2 29a
PRES-1 29a
TRIG-2 29a
NAVB-2 29a
BURN-1 29a
SEAB-8 29a
ELLEN-7 6
PEARCE-1 6
CARD10 6
CARD11 6
CARD4 6
TWIN-4 6
Q1_BRABHAM
PLINE-6 22
YAN-18 22
YAN-17 22
YAN-22 22
PLINE-5 5
MODO-2 21c
PLINE-7 21c
AUSTB-4 5
AUSTB-6 5
GUTHR-2 5
GUTHR-4 5
HARRY-3 5
MILT-1 5
BULL-5 5
BULL-7 5
TWIN-1 6
TWIN-2 6
TWIN-3 6
Samples
30
28
26
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19

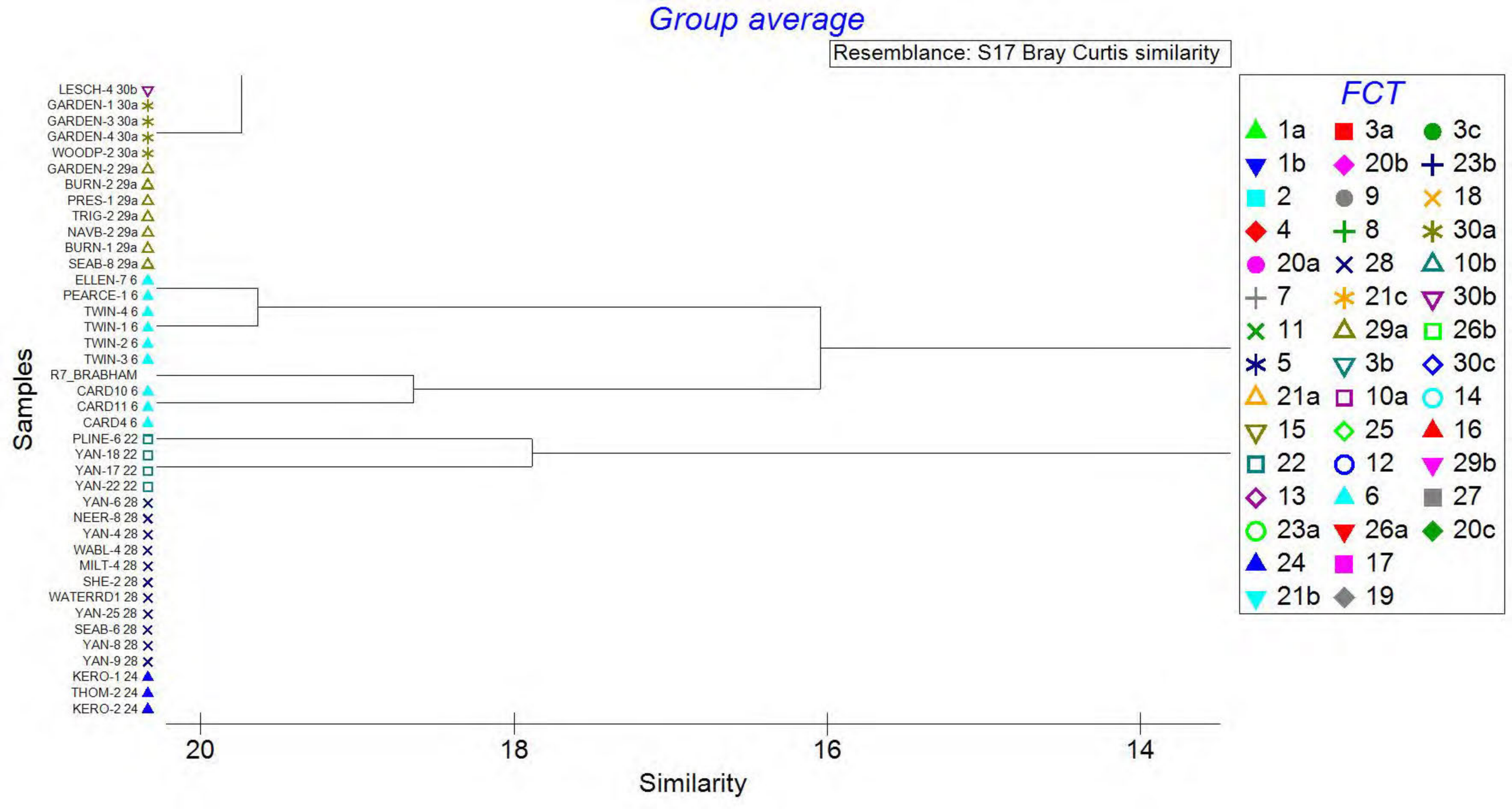

Group average
Resemblance: S17 Bray Curtis similarity
LESCH-2 30b
LESCH-3 30b
LESCH-4 30b
GARDEN-1 30a
GARDEN-3 30a
GARDEN-4 30a
WOODP-2 30a
GARDEN-2 29a
BURN-2 29a
PRES-1 29a
TRIG-2 29a
NAVB-2 29a
BURN-1 29a
SEAB-8 29a
PLINE-6 22
YAN-18 22
YAN-17 22
YAN-22 22
YAN-6 28
Q2_BRABHAM
NEER-8 28
YAN-4 28
WABL-4 28
MILT-4 28
SHE-2 28
WATERRD1 28
YAN-25 28
SEAB-6 28
YAN-8 28
YAN-9 28
KERO-1 24
THOM-2 24
KERO-2 24
MTB-1 24
HARRY-1 28
HARRY-2 28
TAM-1 21a
WELL-1 21a
PAGA-4 21a
Samples
42
40
38
36
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
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29b
13
6
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23a
26a
20c
24
17
21b
19

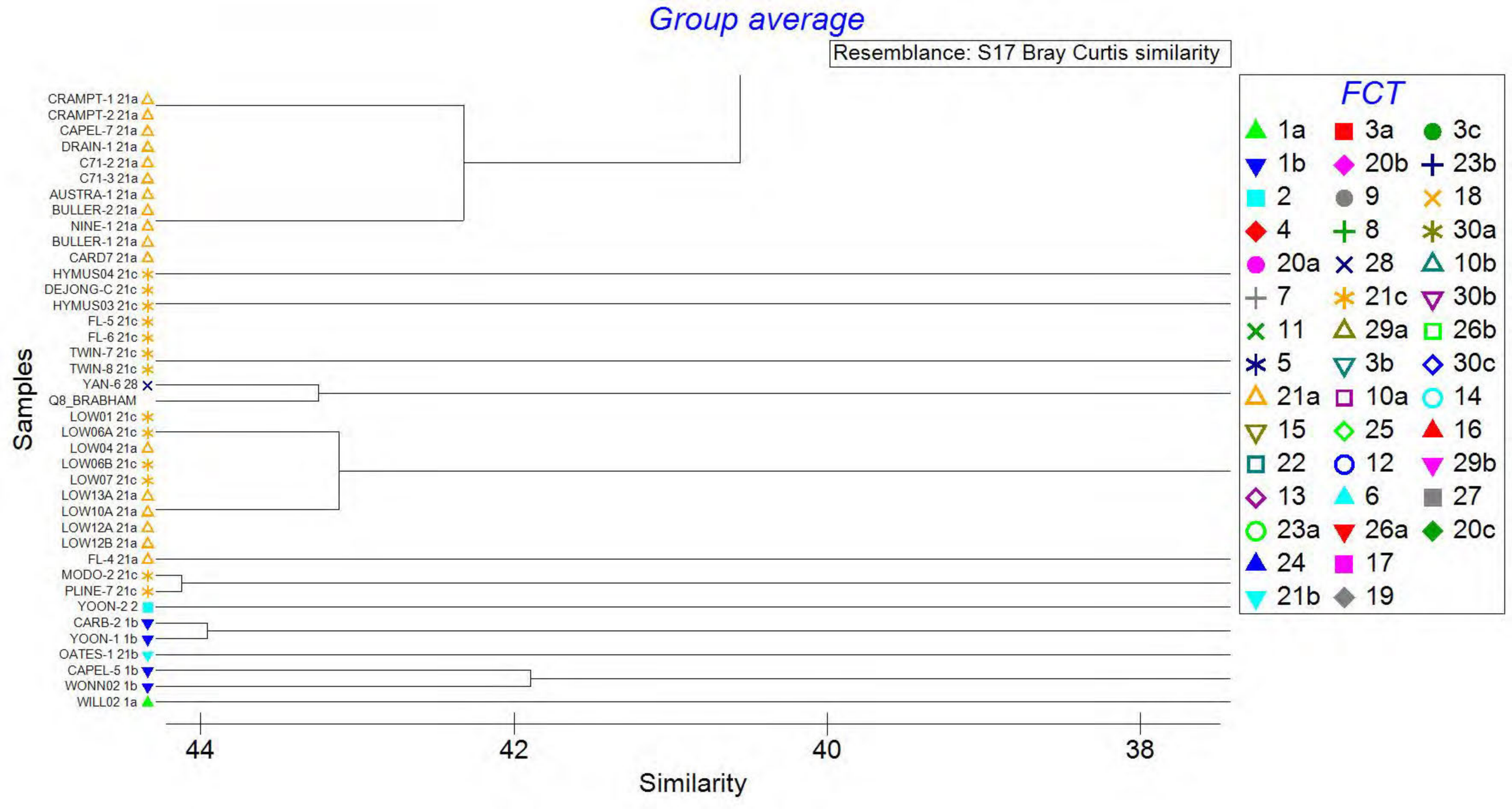

Group average
Resemblance: S17 Bray Curtis similarity
LESCH-4 30b
GARDEN-1 30a
GARDEN-3 30a
GARDEN-4 30a
WOODP-2 30a
GARDEN-2 29a
BURN-2 29a
PRES-1 29a
TRIG-2 29a
NAVB-2 29a
BURN-1 29a
SEAB-8 29a
PLINE-6 22
YAN-18 22
YAN-17 22
YAN-22 22
PAGA-6 25
R3_BRABHAM
C71-1 11
HARRY-6 11
LOW10B 11
CARAB-3 11
ROWE01 11
YAN-6 28
NEER-8 28
YAN-4 28
WABL-4 28
MILT-4 28
SHE-2 28
WATERRD1 28
YAN-25 28
SEAB-6 28
YAN-8 28
YAN-9 28
KERO-1 24
THOM-2 24
KERO-2 24
MTB-1 24
HARRY-1 28
Samples
26
24
22
20
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19

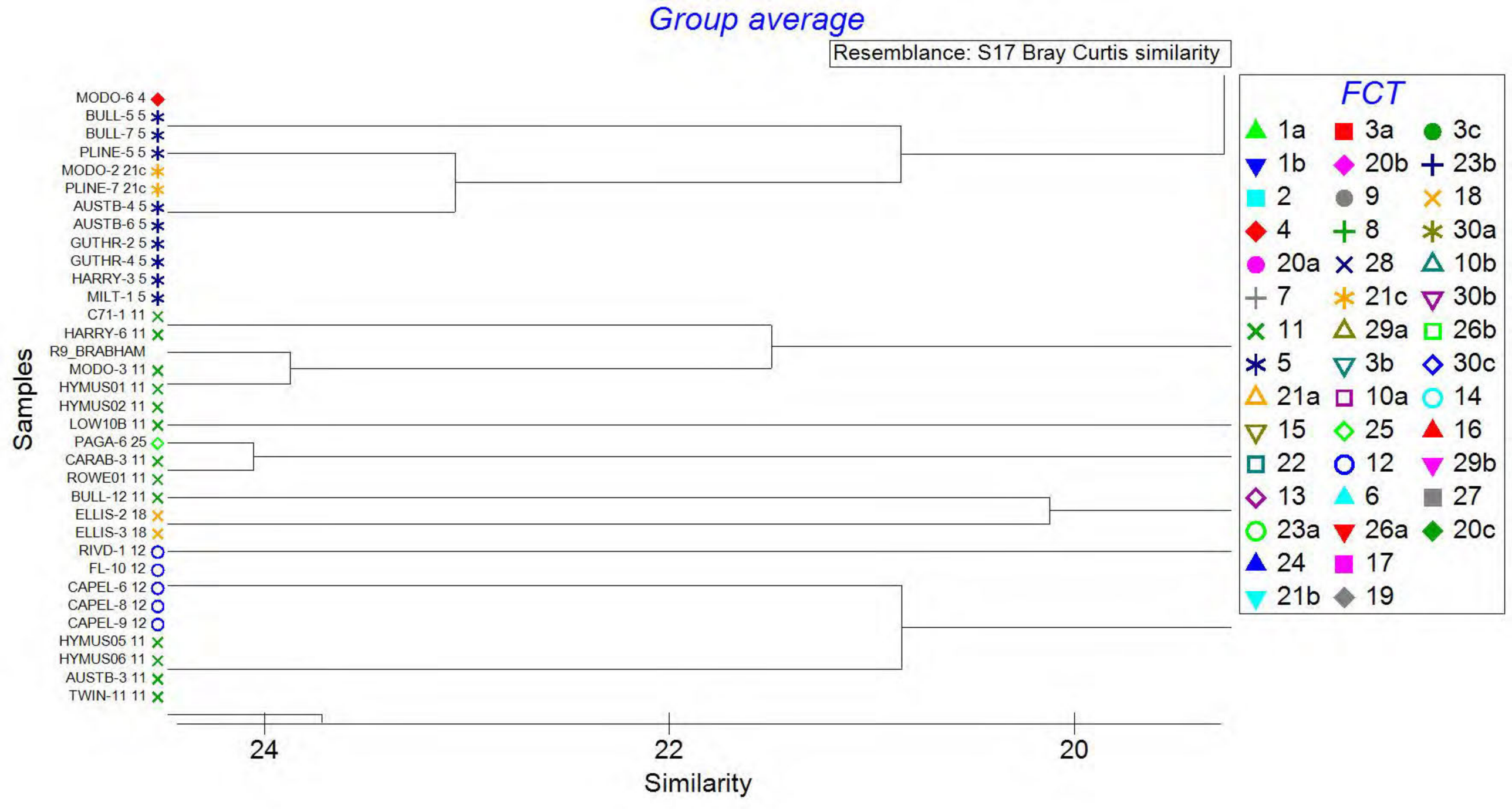

Group average
Resemblance: S17 Bray Curtis similarity
DUCK-3 9
BRIX-4 8
WARO 03 8
WARO 04 8
C58-2 13
WATER-1 13
WOODP-1 30a
R4_BRABHAM
POSSUM1 16
NAVB-1 16
POSSUM2 16
SANDON-1 16
AUSTB-1 7
TWIN-10 15
TWIN-5 15
BAMBUN-2 15
CARAB-1 15
POSSUM5 17
COOL04 17
ELLIS-1 17
MTB-5 17
LESCH-6 17
COOL01 17
COOL11 17
PAGA-5 17
MILT-2 13
MCLART-1 13
PAGA-2 13
ELLIS-2 18
ELLIS-3 18
COOL09 19
PB-1 19
PB-6 19
MILT-5 14
YAN-21 14
WATER-2 13
BANK-1A 13
CAPEL-4 13
RUAB-3 13
Samples
28
26
24
22
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
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12
29b
13
6
27
23a
26a
20c
24
17
21b
19

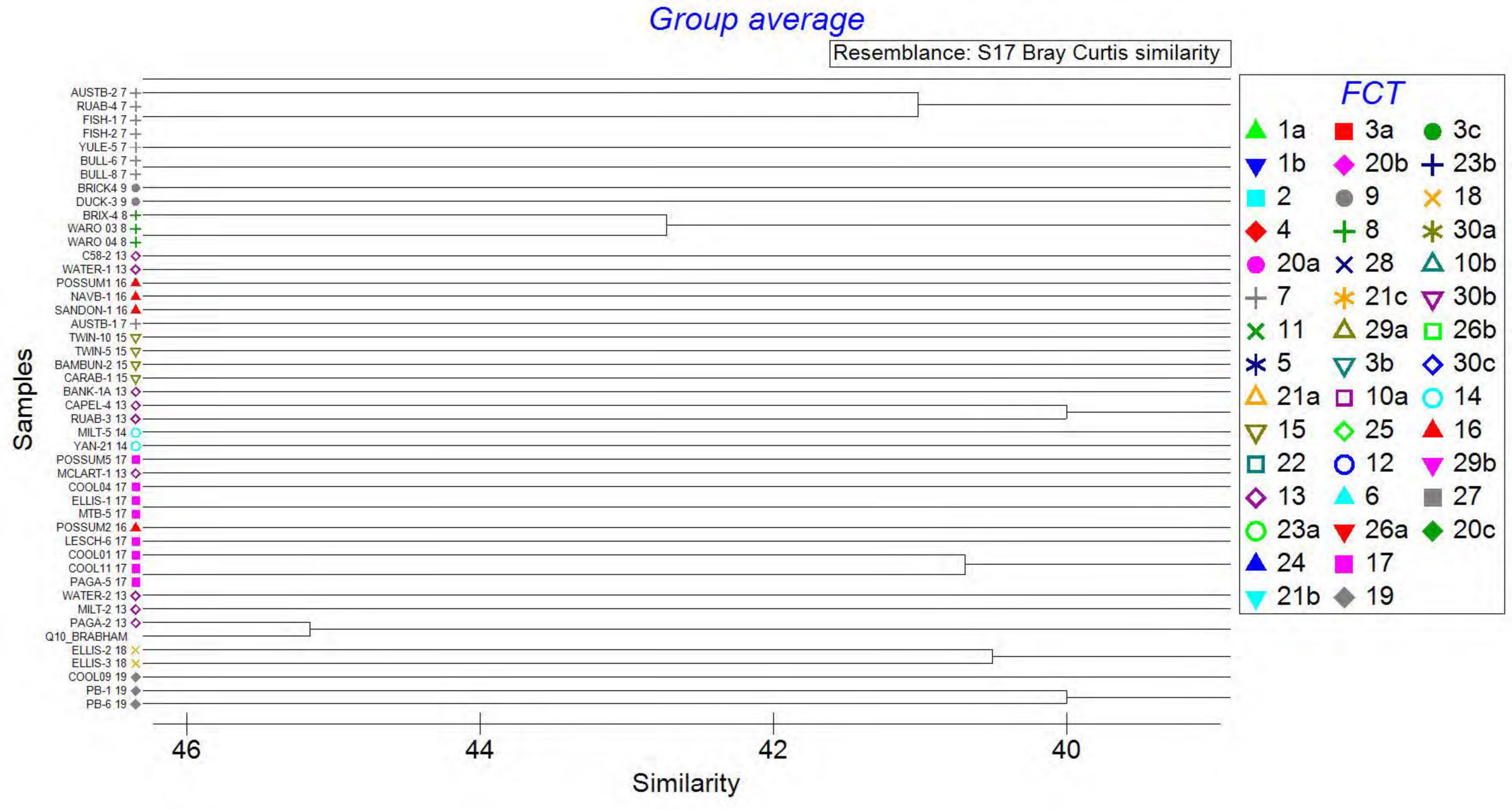

Group average
Resemblance: S17 Bray Curtis similarity
HARRY-6 11
PAGA-6 25
CARAB-3 11
ROWE01 11
RIVD-1 12
FL-10 12
CAPEL-6 12
CAPEL-8 12
CAPEL-9 12
HYMUS05 11
HYMUS06 11
AUSTB-3 11
TWIN-11 11
BULL-12 11
MODO-3 11
HYMUS01 11
HYMUS02 11
CARD10 6
R5_BRABHAM
ELLEN-7 6
PEARCE-1 6
TWIN-4 6
TWIN-1 6
TWIN-2 6
TWIN-3 6
WONN-3 9
BYRD-1 9
WELR 02 9
SMITH-1 10b
WONN-4 10b
WONN-6 10b
SMITH04 10b
IRON01 10b
IRON02 10b
MUD-2 8
MUD-3 8
MUD-9 8
MUD-6 8
MUD-7 8
Samples
26
24
22
20
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
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12
29b
13
6
27
23a
26a
20c
24
17
21b
19

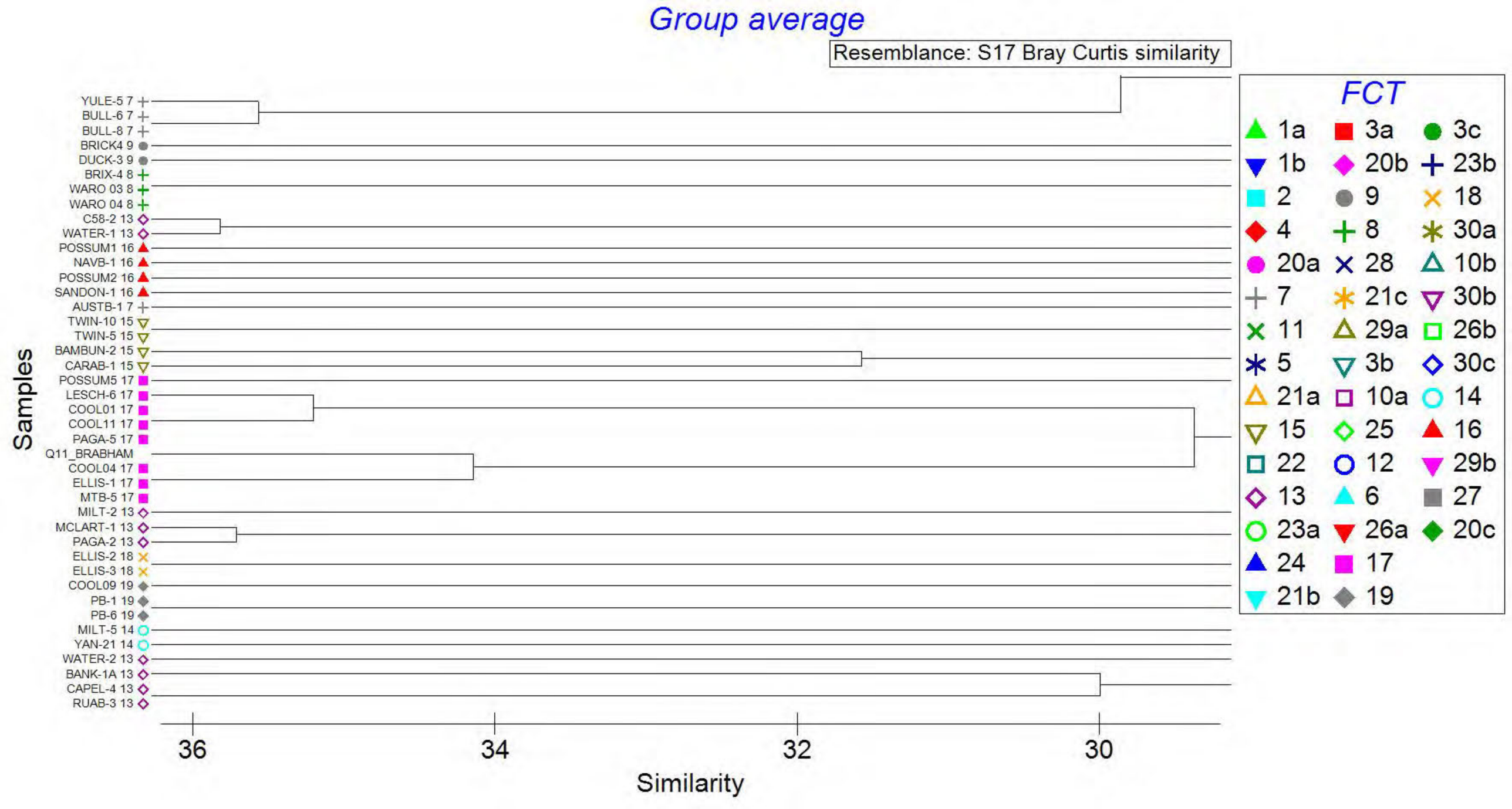

Group average
Resemblance: S17 Bray Curtis similarity
BURN-2 29a
PRES-1 29a
TRIG-2 29a
NAVB-2 29a
BURN-1 29a
SEAB-8 29a
PLINE-6 22
YAN-18 22
YAN-17 22
YAN-22 22
CARD10 6
TWIN-4 6
TWIN-1 6
TWIN-2 6
TWIN-3 6
ELLEN-7 6
PEARCE-1 6
Q6_BRABHAM
CARD11 6
CARD4 6
YAN-6 28
NEER-8 28
YAN-4 28
WABL-4 28
MILT-4 28
SHE-2 28
WATERRD1 28
YAN-25 28
SEAB-6 28
YAN-8 28
YAN-9 28
KERO-1 24
THOM-2 24
KERO-2 24
MTB-1 24
HARRY-1 28
HARRY-2 28
TAM-1 21a
WELL-1 21a
Samples
32
30
28
26
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19

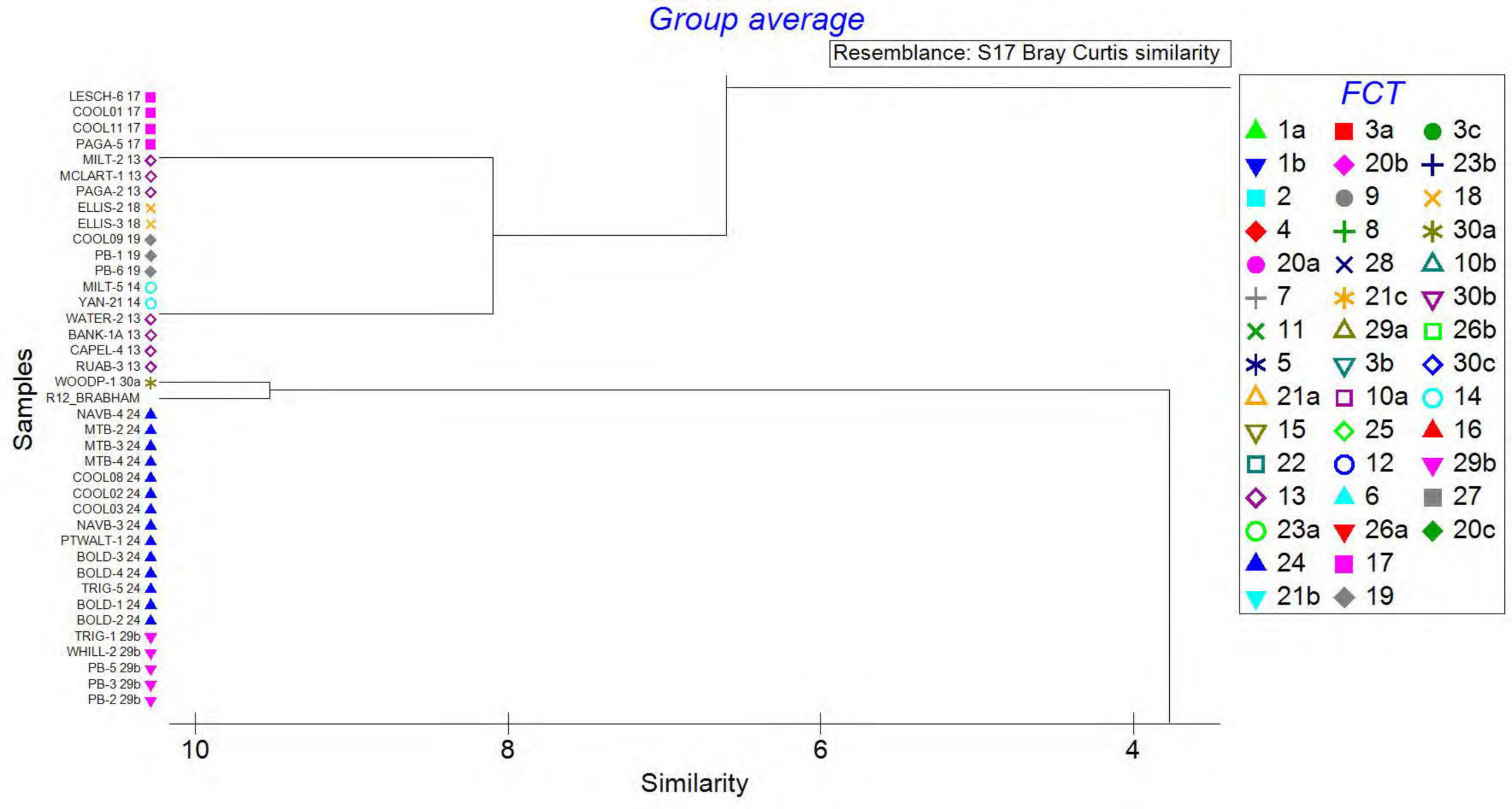

Group average
Resemblance: S17 Bray Curtis similarity
LESCH-4 30b
GARDEN-1 30a
GARDEN-3 30a
GARDEN-4 30a
WOODP-2 30a
GARDEN-2 29a
BURN-2 29a
PRES-1 29a
TRIG-2 29a
NAVB-2 29a
BURN-1 29a
SEAB-8 29a
ELLEN-7 6
PEARCE-1 6
TWIN-4 6
TWIN-1 6
TWIN-2 6
TWIN-3 6
R7_BRABHAM
CARD10 6
CARD11 6
CARD4 6
PLINE-6 22
YAN-18 22
YAN-17 22
YAN-22 22
YAN-6 28
NEER-8 28
YAN-4 28
WABL-4 28
MILT-4 28
SHE-2 28
WATERRD1 28
YAN-25 28
SEAB-6 28
YAN-8 28
YAN-9 28
KERO-1 24
THOM-2 24
KERO-2 24
Samples
20
18
16
14
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
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16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19

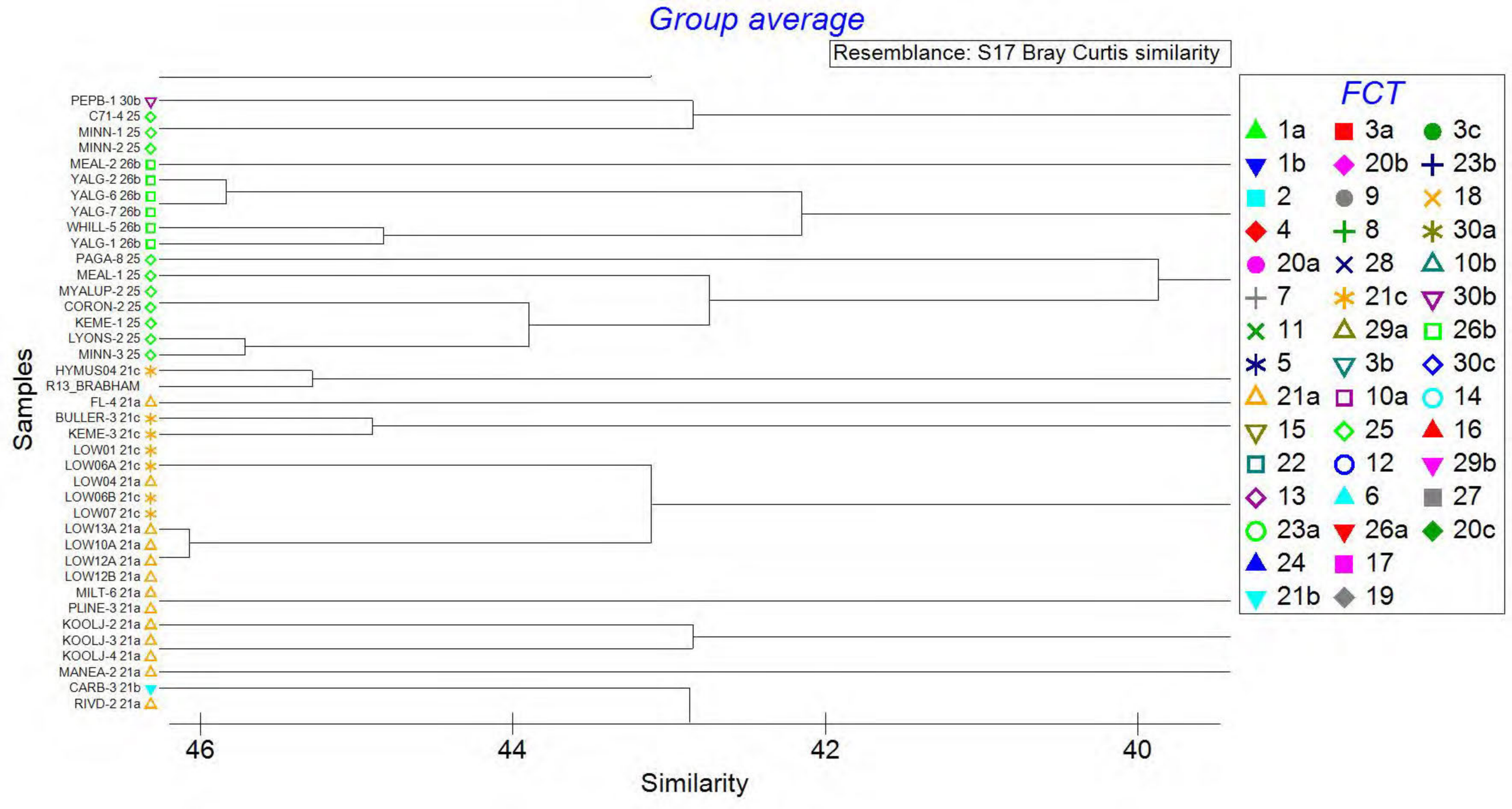

Group average
Resemblance: S17 Bray Curtis similarity
CRAMPT-1 21a
CRAMPT-2 21a
CAPEL-7 21a
DRAIN-1 21a
C71-2 21a
C71-3 21a
AUSTRA-1 21a
BULLER-2 21a
NINE-1 21a
BULLER-1 21a
CARD7 21a
HYMUS04 21c
DEJONG-C 21c
HYMUS03 21c
FL-5 21c
FL-6 21c
TWIN-7 21c
TWIN-8 21c
YAN-6 28
Q8_BRABHAM
LOW01 21c
LOW06A 21c
LOW04 21a
LOW06B 21c
LOW07 21c
LOW13A 21a
LOW10A 21a
LOW12A 21a
LOW12B 21a
FL-4 21a
MODO-2 21c
PLINE-7 21c
YOON-2 2
CARB-2 1b
YOON-1 1b
OATES-1 21b
CAPEL-5 1b
WONN02 1b
WILL02 1a
Samples
44
42
40
38
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19


Group average
Resemblance: S17 Bray Curtis similarity
MODO-6 4
BULL-5 5
BULL-7 5
PLINE-5 5
MODO-2 21c
PLINE-7 21c
AUSTB-4 5
AUSTB-6 5
GUTHR-2 5
GUTHR-4 5
HARRY-3 5
MILT-1 5
C71-1 11
HARRY-6 11
R9_BRABHAM
MODO-3 11
HYMUS01 11
HYMUS02 11
LOW10B 11
PAGA-6 25
CARAB-3 11
ROWE01 11
BULL-12 11
ELLIS-2 18
ELLIS-3 18
RIVD-1 12
FL-10 12
CAPEL-6 12
CAPEL-8 12
CAPEL-9 12
HYMUS05 11
HYMUS06 11
AUSTB-3 11
TWIN-11 11
Samples
24
22
20
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19


Group average
Resemblance: S17 Bray Curtis similarity
AUSTB-2 7
RUAB-4 7
FISH-1 7
FISH-2 7
YULE-5 7
BULL-6 7
BULL-8 7
BRICK4 9
DUCK-3 9
BRIX-4 8
WARO 03 8
WARO 04 8
C58-2 13
WATER-1 13
POSSUM1 16
NAVB-1 16
SANDON-1 16
AUSTB-1 7
TWIN-10 15
TWIN-5 15
BAMBUN-2 15
CARAB-1 15
BANK-1A 13
CAPEL-4 13
RUAB-3 13
MILT-5 14
YAN-21 14
POSSUM5 17
MCLART-1 13
COOL04 17
ELLIS-1 17
MTB-5 17
POSSUM2 16
LESCH-6 17
COOL01 17
COOL11 17
PAGA-5 17
WATER-2 13
MILT-2 13
PAGA-2 13
Q10_BRABHAM
ELLIS-2 18
ELLIS-3 18
COOL09 19
PB-1 19
PB-6 19
Samples
46
44
42
40
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19


Group average
Resemblance: S17 Bray Curtis similarity
YULE-5 7
BULL-6 7
BULL-8 7
BRICK4 9
DUCK-3 9
BRIX-4 8
WARO 03 8
WARO 04 8
C58-2 13
WATER-1 13
POSSUM1 16
NAVB-1 16
POSSUM2 16
SANDON-1 16
AUSTB-1 7
TWIN-10 15
TWIN-5 15
BAMBUN-2 15
CARAB-1 15
POSSUM5 17
LESCH-6 17
COOL01 17
COOL11 17
PAGA-5 17
Q11_BRABHAM
COOL04 17
ELLIS-1 17
MTB-5 17
MILT-2 13
MCLART-1 13
PAGA-2 13
ELLIS-2 18
ELLIS-3 18
COOL09 19
PB-1 19
PB-6 19
MILT-5 14
YAN-21 14
WATER-2 13
BANK-1A 13
CAPEL-4 13
RUAB-3 13
Samples
36
34
32
30
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19


Group average
Resemblance: S17 Bray Curtis similarity
LESCH-6 17
COOL01 17
COOL11 17
PAGA-5 17
MILT-2 13
MCLART-1 13
PAGA-2 13
ELLIS-2 18
ELLIS-3 18
COOL09 19
PB-1 19
PB-6 19
MILT-5 14
YAN-21 14
WATER-2 13
BANK-1A 13
CAPEL-4 13
RUAB-3 13
WOODP-1 30a
R12_BRABHAM
NAVB-4 24
MTB-2 24
MTB-3 24
MTB-4 24
COOL08 24
COOL02 24
COOL03 24
NAVB-3 24
PTWALT-1 24
BOLD-3 24
BOLD-4 24
TRIG-5 24
BOLD-1 24
BOLD-2 24
TRIG-1 29b
WHILL-2 29b
PB-5 29b
PB-3 29b
PB-2 29b
Samples
10
8
6
4
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19


Group average
Resemblance: S17 Bray Curtis similarity
PEPB-1 30b
C71-4 25
MINN-1 25
MINN-2 25
MEAL-2 26b
YALG-2 26b
YALG-6 26b
YALG-7 26b
WHILL-5 26b
YALG-1 26b
PAGA-8 25
MEAL-1 25
MYALUP-2 25
CORON-2 25
KEME-1 25
LYONS-2 25
MINN-3 25
HYMUS04 21c
R13_BRABHAM
FL-4 21a
BULLER-3 21c
KEME-3 21c
LOW01 21c
LOW06A 21c
LOW04 21a
LOW06B 21c
LOW07 21c
LOW13A 21a
LOW10A 21a
LOW12A 21a
LOW12B 21a
MILT-6 21a
PLINE-3 21a
KOOLJ-2 21a
KOOLJ-3 21a
KOOLJ-4 21a
MANEA-2 21a
CARB-3 21b
RIVD-2 21a
Samples
46
44
42
40
Similarity
FCT
1a
3a
3c
1b
20b
23b
2
9
18
4
8
30a
20a
28
10b
7
21c
30b
11
29a
26b
5
3b
30c
21a
10a
14
15
25
16
22
12
29b
13
6
27
23a
26a
20c
24
17
21b
19

Appendix D

Tree Survey (Emerge, 2023)

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Emerge Environmental Services Pty Ltd ABN 57144772510 trading as Emerge Associates

Document Reference: EP17-131(29)—089 NAW

Emerge contact: [redacted]

20 January 2023

Attention: [redacted]

Delivered by email to: [redacted]

Dear [redacted]

TREE SURVEY – LOT 822 YOULE-DEAN ROAD, BRABHAM

1 INTRODUCTON

1.1 Project background

Peet Limited is preparing a subdivision design for future residential development of Lot 822 Youle-Dean Road, Brabham (referred to herein as 'the site').

The site is located approximately 17 kilometres north-east of the Perth Central Business District, within the City of Swan and extends over 109 hectares (ha), being bound by bushland and an old landing strip to the east, Youle-Dean Road to the north, Isoodon Street to the west and native bushland to the south, as shown in **Figure 1**.

1.2 Purpose and scope of work

Emerge Associates (Emerge) were engaged by Peet to conduct a tree survey across the site. As part of this scope of work, the following tasks were undertaken:

- A field survey to assess retention and habitat values of native trees (comprising local native and Australian native species).
- Mapping of *Melaleuca* spp. tree canopy.
- Documentation of the survey methodology and results into a report.

2 METHODS

Ecologists from Emerge visited the site over seven days between the 27 October 2021 and 24 March 2022. The site was traversed on foot, and an assessment of native trees[1] was undertaken.

[1] A low number of non-native trees within the site were observed inside a central compound. These were not tagged or assessed.

All native trees (excluding *Melaleuca* spp.) with a diameter at breast height (DBH) >30 centimetres (cm) were tagged and assessed. Stags (dead trees) with a DBH >50 cm were also assessed if they contained hollows and were considered to have moderate or high retention value.

Melaleuca spp. were mapped as canopy due to their relative abundance, small size and generally consistent values.

2.1 Attributes

Each native tree and stag was individually identified and assessed for the attributes outlined in **Table 1**.

Table 1: Attributes recorded for each tree

Attribute	Description
Tag number	Individually numbered steel tags were attached to each tree
GPS location	The location was recorded using a handheld GPS unit
Tree species	Species and common name were identified
Diameter at breast height (DBH) (cm)	DBH was measured at breast height (1.3 m) using a diameter tape
Image	Trees were individually photographed
Hollows present	The presence of any hollows was recorded.
Black Cockatoo hollows	If hollows were present, any potentially suitable for a black cockatoo were noted.
Health	Health rating (excellent, good, average, poor or dead)
Structure	Appearance rating based on structure (good, acceptable or poor)
General notes	Any additional observations

2.2 Identification tags

Native trees with DBH >30 cm were tagged with a unique number. An example of an ID tag can be seen in **Plate 1**.



Plate 1: Example id tag affixed to trees within the site

2.3 Health score

Tree health was scored as outlined in **Table 2**.

Table 2: Tree health score

Score	Description
3 - Good	Tree condition and growth typical in seasonal context. Signs of disease or stress absent. Impacts from herbivory absent or minor.
2 - Average	Tree growth limited in seasonal context or in comparison to other individuals of same species *in situ*. Minor signs of disease, stress and / or moderate impacts from herbivory.
1 - Poor	Tree in decline. Growth severely limited. Severe impacts from disease, stress or herbivory.
0 - Dead	Tree is dead.

2.4 Structure score

Tree structure was scored as outlined in **Table 3**.

Table 3: Tree structure score

Score	Description
3 - Good	Tree structure is regular (typical for species) and defects are absent or minor.
2 - Acceptable	Tree structure is irregular, such as leaning trunk or due to damage, but defects are absent or minor.
1 - Poor	Tree structure is irregular, such as leaning trunk or due to damage, and major defects are present.

2.5 Useful life expectancy

Useful life expectancy (ULE) was classified as 'greater than 40 years', '15 – 40 years', '5 – 15 years' and 'less than 5 years' by considering the typical lifespan of a species and the health and structural score of each tree as outlined in **Table 4.**

Table 4: Useful life expectancy value matrix

Sum Health and Structure Score	Typical lifespan of species		
	100-400 years	40-100 years	<40 years
≥5	Greater than 40 years	Greater than 40 years	15 – 40 years
4	Greater than 40 years	15 – 40 years	5 – 15 years
3	5 – 15 years	5 – 15 years	Less than 5 years
≤2	Less than 5 years	Less than 5 years	Less than 5 years

2.6 Significance

Significance was classified by considering the ecological, cultural and amenity values outlined in **Table 5**.

Table 5: Ecological or cultural significance score

Significance	Ecological	Cultural	Amenity
3 - Special	Tree provides specific, verified, critical habitat for conservation significant fauna	Tree has specific, verified cultural / heritage significance	Tree makes a special contribution to local amenity
2 - General	Tree provides ecosystem services that are of general benefit native fauna	Tree has general cultural / heritage significance	Tree contributes to local amenity as part of the urban forest
1 - Nominal	Tree provides ecosystem services of nominal benefit to native fauna	Tree has nominal cultural / heritage significance	Tree makes a nominal contribution to local amenity or urban forest

2.7 Retention value

Retention value was classified as 'high', 'moderate' and 'low' by considering the useful life expectancy and ecological or cultural significance of each tree as outlined in **Table 6.**

Table 6: Tree retention value matrix

Useful life expectancy (ULE)	Ecological or cultural significance		
	3	2	1
40+ years	High	Moderate	Low
15 to 40 years			
5 to 15 years			
Less than 5 years			

2.8 Tree protection zone

AS 4970-2009 Protection of Trees on Development Sites requires that tree protection zones (TPZ) are applied to protect trees during development (Standards Australia 2009). A TPZ aims to encompasses the root area and crown area of a tree so that it can be isolated it from disturbance.

The radius of a TPZ was calculated for each tree by multiplying its DBH o by 12, up to a maximum of 15 m (Standards Australia 2009). .

2.9 Structural root zone

AS 4970-2009 Protection of Trees on Development Sites defines the structural root zone (SRZ) as the minimum volume of roots required by a tree to remain stable in the ground (Standards Australia 2009). An indicative SRZ for an individual tree was calculated as $SRZ = (D \times 50)^{0.42} \times 0.64$, where D is the trunk diameter in metres (m), measured above the root buttress (Standards Australia 2009).

3 RESULTS

3.1 Native trees with DBH >30cm

A total of 2107 native trees with DBH >30cm were recorded within the site. A summary of species can be viewed in **Table 7**. The location of the trees is shown in **Figure 2**.

Table 7: Tree species recorded in the site

Species	Common Name	No. of Trees
Agonis flexuosa	Peppermint tree	1
Allocasuarina fraseriana	Sheoak	321
Banksia attenuata	Candlestick banksia	206
Banksia ilicifolia	Holly-leaved banksia	25
Banksia menziesii	Firewood banksia	163
Corymbia calophylla	Marri	574
Eucalyptus botryoides	Southern mahogany	3
Eucalyptus camaldulensis	Red river gum	2
Eucalyptus gomphocephala	Tuart	3
Eucalyptus marginata	Jarrah	119
Eucalyptus rudis	Flooded gum	551
Eucalyptus sp.	-	8
Eucalyptus todtiana	Coastal blackbutt	66
Nuytsia floribunda	WA Christmas tree	16
Stag	-	49

A complete inventory of trees recorded in the site is provided in **Appendix A**.

3.2 Melaleuca spp. canopy

A total of 12.57 ha of *Melaleuca* spp. canopy was recorded within in the site, comprising two species *Melaleuca preissiana* and *M. rhaphiophylla*. The extent of *Melaleuca* spp. canopy is shown in **Figure 2**.

3.3 Retention value

A summary of the tree retention values is provided in **Table 8**.The majority of trees recorded were considered of moderate retention value. Approximately 14% were considered to have low retention value. No trees were rated as having high retention value..

Table 8: Summary of tree retention values recorded within the site.

Retention value	No. of trees
High	0 (0 %)
Moderate	1808 (85.81 %)
Low	299 (14.19 %)

The *Melaleuca* spp. trees recorded in the site were rated as having moderate retention value. Tree retention value locations can be viewed in **Figure 3**.

4 CONCLUSIONS

A total of 2107 native trees with a DBH >30 cm were recorded in the site of which1808 have moderate retention value and 299 have low retention value. None were considered to have a high retention value due to a lack of any special significance value.

A total of 12.57 ha of *Melaleuca* spp. canopy was recorded in the site. The *Melaleuca* spp. trees comprise *M. preissiana* and *M. rhaphiophylla* and have moderate retention value, noting they are relatively small in size and, being wetland trees, may require further consideration of hydrology should they be retained during subdivision.

Summary and closing

We trust that this letter and attachments provides you with sufficient information regarding the trees and vegetation within the site.

If you have any questions or require further information, please do not hesitate to contact the undersigned.

Yours sincerely
Emerge Associates



Encl: Appendix A: Tree Inventory
Figure 1: Site Location
Figure 2: Tree Locations
Figure 3: Tree Retention Values

General References

Standards Australia 2009, *AS 4970-2009 Protection of trees on development sites* Sydney.

Figures

Figure 1: Site Location

Figure 2: Tree Locations

Figure 3: Tree Retention Value

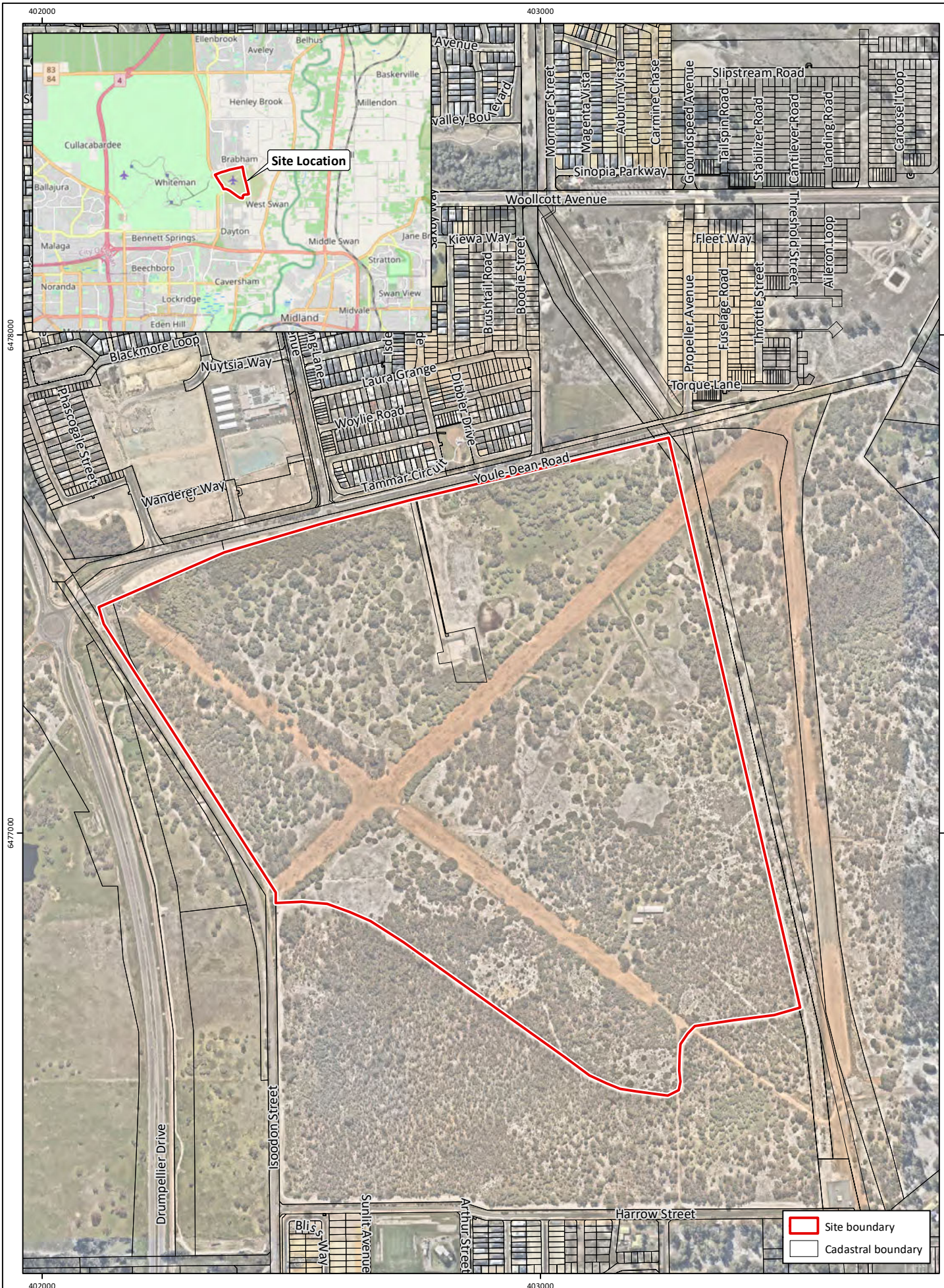


Figure 1: Site Location

Project:	Tree Survey Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:
EP17-131(29)--F198

Drawn:	GAR
Date:	09/06/2022
Checked:	NAW
Approved:	TAA
Date:	19/01/2023

N

0 100 200
Metres

Scale: 1:10,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

While Emerge Associates makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no responsibility for externally sourced data used.
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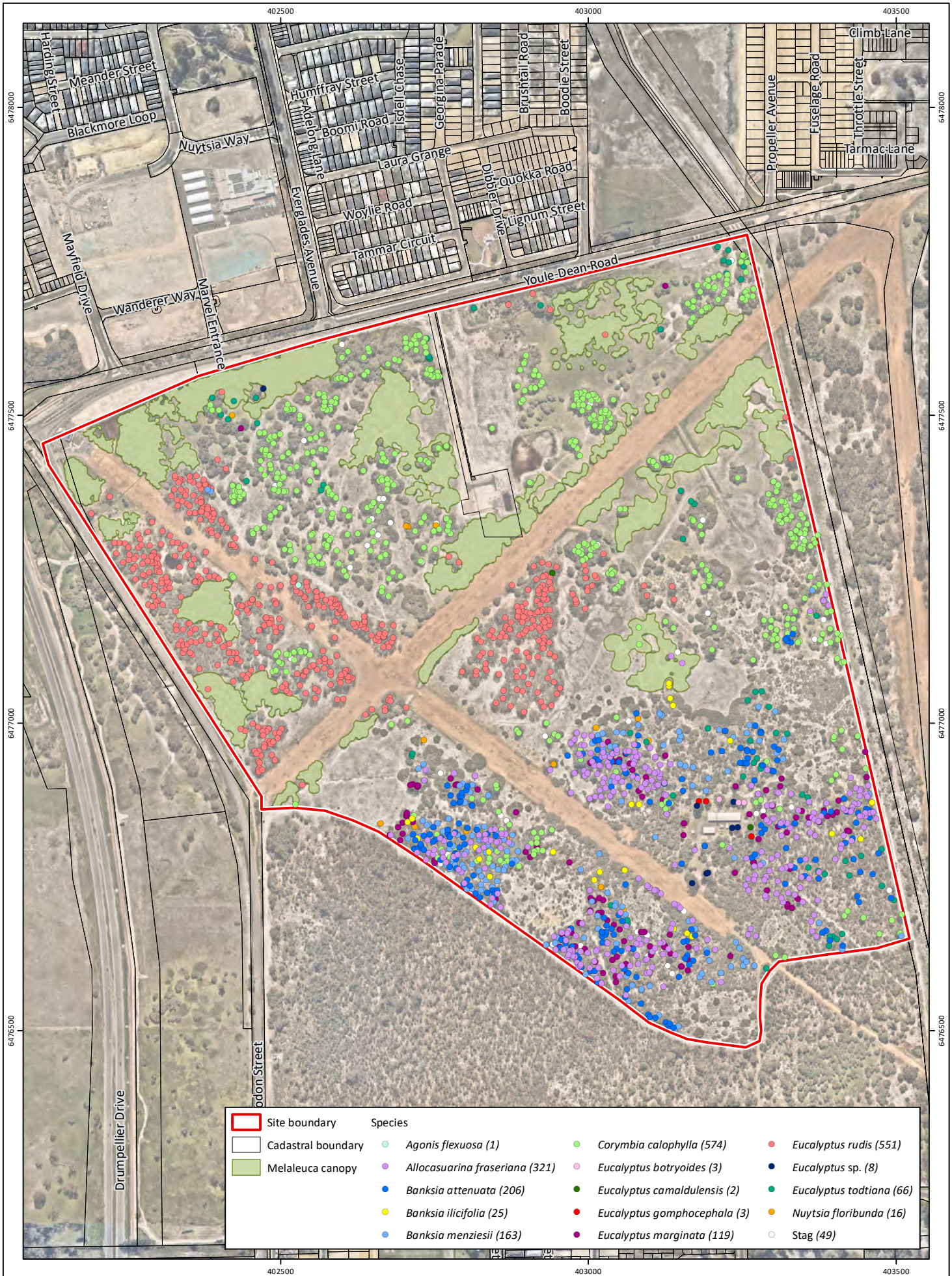


Figure 2: Tree Locations

Project: Tree Survey
Lot 822 Youle-Dean Rd, Brabham

Client: Peet Limited

Plan Number: EP17-131(29)--F199

Drawn:	GAR
Date:	09/06/2022
Checked:	NAW
Approved:	TAA
Date:	19/01/2023

N

0 100 200
Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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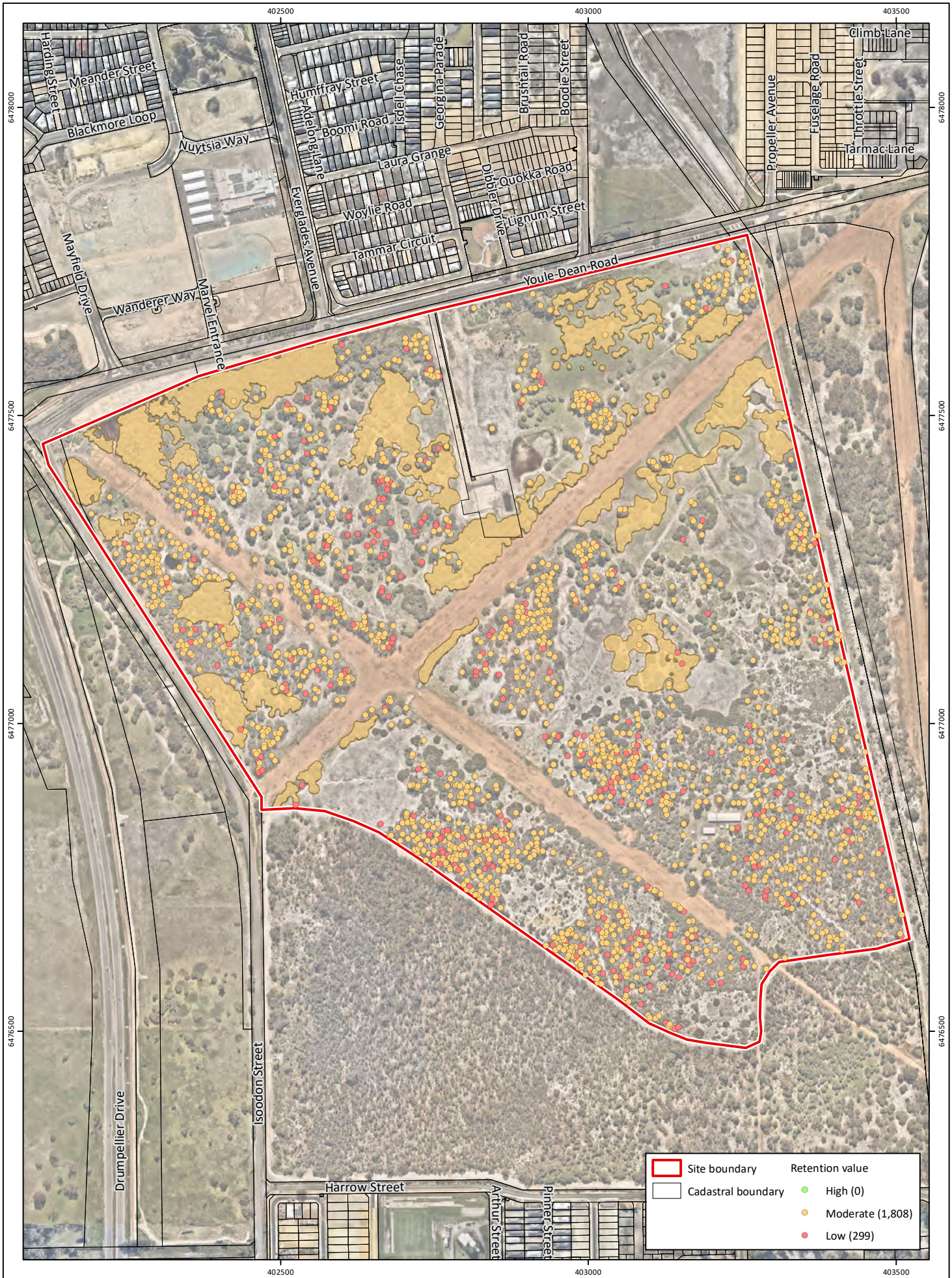


Figure 3: Tree Retention Value

Project:	Tree Survey Lot 822 Youle-Dean Rd, Brabham
Client:	Peet Limited

Plan Number:	**EP17-131(29)--F200**
Drawn:	GAR
Date:	09/06/2022
Checked:	NAW
Approved:	TAA
Date:	19/01/2023

N

0 100 200
Metres

Scale: 1:8,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

While Emerge Associates makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no responsibility for externally sourced data used.
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Appendix A

Tree inventory

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402529.4999	6477224.052	34	408	*Agonis flexuosa*	3	2	>40	2	-	Moderate	4.08	2.10
402768.7482	6476773.576	30	3214	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.60	2.00
403061.5927	6476557.843	30	3025	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.60	2.00
402978.2029	6476620.023	30	3034	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
402963.7508	6476647.269	30	3051	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.60	2.00
403215.733	6476579.472	30	1806	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	3.60	2.00
402829.5438	6476809.293	30	3413	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
402831.6277	6476809.091	30	3429	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
402971.991	6476887.02	30	3371	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	3.60	2.00
403348.6047	6476709.318	30	2721	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403463.066	6476855.063	30	2767	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403426.3418	6476855.715	30	2780	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.60	2.00
403426.2972	6476910.811	30	2789	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403390.2534	6477191.384	30	2828	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403386.1091	6477209.415	30	2831	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403003.8451	6476951.175	30	3454	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.60	2.00
403092.2291	6476901.569	30	3495	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403113.6376	6476899.332	30	3500	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
403076.2305	6476952.301	30	3293	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.60	2.00
403048.8886	6476911.359	30	2612	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.60	2.00
403033.3824	6476929.947	30	2616	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.60	2.00
402974.5021	6476621.097	31	3035	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.72	2.02
403014.7166	6476631.565	31	3040	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
402980.3418	6476654.077	31	3055	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
403109.0388	6476634.339	31	1873	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.72	2.02
402679.3722	6476817.96	31	1651	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	3.72	2.02
402833.5024	6476810.994	31	3355	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.72	2.02
403269.5307	6476745.378	31	3133	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
403260.6084	6476728.111	31	3136	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.72	2.02
403447.7765	6476830.53	31	3184	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.72	2.02
403316.815	6476708.575	31	2724	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
402971.9976	6476966.505	31	3443	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
402984.925	6476950.442	31	3447	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
403061.2596	6476954.266	31	3490	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02
403080.7009	6476909.774	31	3492	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.72	2.02

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402781.2505	6476782.453	32	3219	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
402966.0096	6476658.597	32	3063	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403080.8911	6476608.687	32	599	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
402721.9448	6476789.319	32	1697	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
403136.9677	6476673.181	32	1867	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
403103.8868	6476628.748	32	1872	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
403173.214	6476793.47	32	3433	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403002.5622	6476876.556	32	3372	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403086.6038	6476895.973	32	3382	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403270.1715	6476767.778	32	3126	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	3.84	2.05
403270.7897	6476752.374	32	3132	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403328.6508	6476768.217	32	3171	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.84	2.05
403415.1653	6476816.478	32	3182	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.84	2.05
403441.0623	6476890.441	32	2760	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403443.6262	6476849.226	32	2772	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.84	2.05
403418.5637	6476857.638	32	2782	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403374.2501	6476840.149	32	2799	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403289.4384	6476842.233	32	2812	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.84	2.05
402857.3908	6476796.961	32	3318	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.84	2.05
403009.709	6476931.498	32	3451	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
403024.3656	6476952.81	32	3473	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
403043.0877	6476904.32	32	3271	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	3.84	2.05
403123.441	6476883.35	32	3282	*Allocasuarina fraseriana*	2	1	5-15	2	-	Low	3.84	2.05
403065.9961	6476953.757	32	2620	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.84	2.05
402984.419	6476603.121	32	3011	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
402987.14	6476605.585	32	3012	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.84	2.05
403021.3851	6476576.753	33	3022	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.96	2.08
402973.8433	6476630.735	33	3046	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.96	2.08
403094.7229	6476647.174	33	1893	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08
403110.5243	6476727.695	33	1886	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	3.96	2.08
403051.3623	6476589.009	33	595	*Allocasuarina fraseriana*	2	1	5-15	2	-	Low	3.96	2.08
403141.3144	6476623.668	33	1860	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08
402860.2227	6476817.454	33	3424	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.96	2.08
402793.9749	6476757.852	33	3427	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08
402871.0223	6476806.249	33	3322	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403314.6932	6476763.097	33	3174	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	3.96	2.08
403300.1113	6476844.44	33	2810	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	3.96	2.08
403027.9522	6476893.646	33	3276	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	3.96	2.08
403098.3777	6476921.914	33	3297	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08
402966.3676	6476620.687	33	3008	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	3.96	2.08
402808.9406	6476806.438	34	911	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.08	2.10
403014.3055	6476584.89	34	3021	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.08	2.10
403095.1092	6476616.249	34	1896	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.08	2.10
402850.7714	6476806.168	34	3329	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403346.4315	6476749.206	34	3149	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.08	2.10
403297.6873	6476780.231	34	3175	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.08	2.10
403307.3857	6476785.422	34	3176	*Allocasuarina fraseriana*	3	1	15-40	2	-	Moderate	4.08	2.10
403361.9652	6476677.295	34	2715	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403288.1644	6476716.177	34	2731	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.08	2.10
403259.7687	6476656.49	34	2735	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403467.4293	6476843.907	34	2768	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403450.0691	6476848.4	34	2770	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403441.5465	6476848.985	34	2773	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.08	2.10
403358.1898	6476837.226	34	2800	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.08	2.10
403323.275	6476836.676	34	2803	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
403315.68	6476839.265	34	2804	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
402977.6145	6476972.988	34	3444	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.08	2.10
402993.5458	6476979.568	34	3445	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	4.08	2.10
403067.8602	6476605.682	35	590	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.20	2.13
402822.4097	6476793.152	35	3428	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
402841.4635	6476809.739	35	3354	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403454.9931	6476898.443	35	2755	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403290.8417	6476924.392	35	3222	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403133.1946	6476932.884	35	2507	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.20	2.13
403023.6806	6476965.219	35	3475	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403035.8003	6476944.492	35	3480	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403094.291	6476903.694	35	3494	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403111.7461	6476899.203	35	3499	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.20	2.13
403116.8748	6476917.321	35	32289	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13
403095.5771	6476927.873	35	3296	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.20	2.13

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402763.8584	6476780.292	36	3210	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
402977.6467	6476618.799	36	3033	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.32	2.15
403054.8978	6476605.449	36	566	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
402799.1043	6476785.836	36	3410	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.32	2.15
402849.0499	6476828.102	36	3420	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.32	2.15
402798.9728	6476739.718	36	3347	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
403314.0042	6476715.644	36	2725	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
403434.4093	6476893.483	36	2788	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.32	2.15
403360.6296	6477181.572	36	2838	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.32	2.15
402981.2045	6476983.664	36	3442	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	4.32	2.15
403041.6761	6476913.508	36	3273	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
403026.0037	6476909.591	36	3274	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.32	2.15
403072.2389	6476944.06	36	2601	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
402946.8671	6476631.367	36	3004	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.32	2.15
402960.0104	6476632.489	36	3007	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.32	2.15
402987.5837	6476628.759	37	3037	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.44	2.18
403084.8522	6476640.208	37	1879	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.44	2.18
402759.4821	6476812.732	37	1924	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.44	2.18
403169.9362	6476679.367	37	1827	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.44	2.18
403128.0927	6476851.688	37	3436	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.44	2.18
402992.9492	6476922.471	37	3368	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	4.44	2.18
403371.0861	6476653.325	37	2713	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.44	2.18
403329.4535	6476884.071	37	2747	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.44	2.18
403438.4204	6476869.464	37	2775	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.44	2.18
403363.8713	6476846.925	37	2796	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.44	2.18
403381.5661	6477199.395	37	2829	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.44	2.18
403006.5309	6476937.343	37	3456	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	4.44	2.18
403078.4842	6476944.119	37	2602	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.44	2.18
402781.6499	6476820.259	38	1920	*Allocasuarina fraseriana*	1	3	15-40	2	-	Moderate	4.56	2.20
403122.5907	6476572.054	38	1843	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.56	2.20
402841.6034	6476704.869	38	3304	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.56	2.20
403411.1341	6476802.361	38	3165	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.56	2.20
403368.6022	6476816.816	38	3179	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.56	2.20
403108.6827	6476943.074	38	2508	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.56	2.20
402969.7808	6476630.032	39	3048	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.68	2.23

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402967.8644	6476662.606	39	3062	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.68	2.23
403104.2239	6476603.032	39	1898	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	4.68	2.23
402736.3413	6476778.037	39	1932	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.68	2.23
402864.8227	6476821.378	39	3324	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.68	2.23
403451.4287	6476884.996	39	2757	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.68	2.23
403075.0662	6476965.372	39	2511	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.68	2.23
403022.46	6476944.145	39	3458	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.68	2.23
403024.0845	6476902.367	39	3275	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.68	2.23
403103.4467	6476906.22	39	3497	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.68	2.23
403109.6133	6476944.745	39	3295	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	4.68	2.23
402982.1725	6476610.527	39	3010	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.68	2.23
402842.1548	6476826.706	40	903	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	4.80	2.25
402999.2433	6476626.652	40	3039	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403121.9228	6476642.886	40	1891	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403031.7421	6476642.478	40	572	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403031.1577	6476624.181	40	563	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.80	2.25
402765.4823	6476808.687	40	1914	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
402854.7404	6476806.76	40	3328	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403255.8904	6476736.714	40	3135	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	4.80	2.25
403358.3782	6476746.769	40	3151	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.80	2.25
403298.1027	6476866.814	40	2741	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403428.3955	6476858.728	40	2778	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.80	2.25
403312.2922	6476837.238	40	2805	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.80	2.25
403382.0507	6477198.181	40	2830	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
402993.4084	6476964.047	40	3453	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.80	2.25
403026.3219	6476946.066	40	3472	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.80	2.25
403096.7622	6476892.521	40	3267	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.80	2.25
403093.4144	6476615.346	41	1897	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	4.92	2.28
402837.3251	6476807.039	41	3330	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	4.92	2.28
403305.8902	6476723.106	41	2729	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.92	2.28
403378.1452	6476848.611	41	2792	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	4.92	2.28
403058.6096	6476884.069	41	3268	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.92	2.28
403108.1567	6476918.569	41	3292	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	4.92	2.28
402974.5277	6476628.414	42	3045	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30
402957.4861	6476659.293	42	3064	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402852.7938	6476722.379	42	3113	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30
403117.1937	6476642.619	42	1890	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
403130.2471	6476633.209	42	1863	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.04	2.30
402994.5375	6476914.615	42	3369	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
403035.4471	6476881.633	42	3376	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	5.04	2.30
403032.4845	6476864.644	42	3377	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
403286.4696	6476745.427	42	3131	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.04	2.30
403328.0668	6476830.292	42	2802	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30
402989.25	6476963.453	42	3452	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30
403107.043	6476896.166	42	3498	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
403116.7338	6476932.286	42	3299	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.04	2.30
403092.4492	6476928.398	42	3294	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.04	2.30
403073.4706	6476933.873	42	2606	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
403059.5359	6476926.314	42	2610	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.04	2.30
402822.649	6476817.875	43	3416	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.16	2.32
403018.9847	6476891.233	43	3375	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.16	2.32
403075.05	6476936.992	43	2604	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.16	2.32
403054.4355	6476905.203	43	2614	*Allocasuarina fraseriana*	1	3	15-40	2	-	Moderate	5.16	2.32
403121.4308	6476624.811	44	1871	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.28	2.34
403427.8275	6476808.393	44	3162	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	5.28	2.34
403321.0164	6476764.93	44	3173	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.28	2.34
403360.5132	6476821.617	44	3180	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.28	2.34
403335.8207	6476720.283	44	2722	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.28	2.34
403324.6154	6476724.39	44	2726	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.28	2.34
403290.4354	6476716.198	44	2730	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.28	2.34
403046.5124	6476952.575	44	3487	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.28	2.34
403176.1407	6476633.53	45	1821	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.40	2.37
402832.4775	6476819.298	45	3417	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.40	2.37
402832.1426	6476764.642	45	3316	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.40	2.37
403372.6174	6476711.872	45	3145	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.40	2.37
403344.6975	6476732.339	45	3148	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	5.40	2.37
403287.7556	6476719.388	45	2732	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.40	2.37
403432.3633	6476869.518	45	2776	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.40	2.37
403006.0449	6476978.799	45	3466	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.40	2.37
403041.2459	6476888.893	45	3270	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.40	2.37

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403126.4806	6476882.159	45	3283	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.40	2.37
402733.8888	6476907.162	46	1699	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.52	2.39
402782.5218	6476918.154	46	1681	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.52	2.39
402844.1533	6476715.424	46	3303	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.52	2.39
402830.3121	6476798.104	46	3334	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.52	2.39
402977.3735	6476918.333	46	3367	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.52	2.39
403450.2978	6476854.278	46	2771	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.52	2.39
403313.7195	6476816.3	46	2808	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.52	2.39
403134.475	6477108.273	46	2865	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.52	2.39
403152.9353	6477097.583	46	2866	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.52	2.39
403095.8706	6476736.204	47	3068	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.64	2.41
403134.8655	6476665.29	47	1869	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.64	2.41
402787.5495	6476786.836	47	3402	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.64	2.41
403272.0886	6476654.61	47	2734	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.64	2.41
403429.1014	6476864.166	47	2777	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.64	2.41
403387.4118	6476869.539	47	2790	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.64	2.41
403115.5067	6476911.876	47	3281	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.64	2.41
403002.4994	6476602.515	48	3028	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.76	2.43
403081.67	6476746.823	48	3069	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.76	2.43
403068.8529	6476650.921	48	586	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.76	2.43
403279.2461	6476768.861	48	3127	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	5.76	2.43
403353.2531	6476778.537	48	3168	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.76	2.43
403338.3336	6476815.312	48	3178	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.76	2.43
403018.2317	6476930.913	48	3462	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.76	2.43
403046.2855	6476956.564	48	3488	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.76	2.43
403071.9702	6476912.352	48	3491	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	5.76	2.43
403099.4734	6476595.005	49	1899	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.88	2.45
402735.9141	6476923.145	49	1700	*Allocasuarina fraseriana*	1	3	15-40	2	-	Moderate	5.88	2.45
402739.1639	6476809.769	49	1927	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	5.88	2.45
403229.1125	6476796.657	49	3119	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.88	2.45
403457.4893	6476854.345	49	2766	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	5.88	2.45
403083.1758	6476948.376	49	3298	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	5.88	2.45
403003.251	6476693.315	50	552	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.00	2.47
403020.883	6476880.609	50	3374	*Allocasuarina fraseriana*	1	3	15-40	2	-	Moderate	6.00	2.47
402968.2339	6476623.477	50	3009	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	6.00	2.47

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403282.2547	6476791.061	50	24	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.00	2.47
403095.1249	6476594.521	51	1900	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	6.12	2.49
403110.1458	6476727.691	51	1885	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	6.12	2.49
402740.4072	6476788.385	51	1930	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.12	2.49
403257.3749	6476780.073	51	3123	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	6.12	2.49
403307.598	6476742.744	51	2728	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.12	2.49
403414.37	6476860.813	51	2784	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	6.12	2.49
403009.972	6476612.896	52	3029	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.24	2.51
403078.8732	6476621.971	52	1894	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.24	2.51
403145.104	6476703.522	52	1889	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.24	2.51
402865.6921	6476819.502	52	3325	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.24	2.51
403100.3828	6476960.178	52	2509	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	6.24	2.51
403031.7225	6476935.364	52	3463	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.24	2.51
403039.6287	6476949.961	52	3484	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.24	2.51
403057.6993	6476930.398	52	2611	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.24	2.51
402944.1996	6476653.292	53	3067	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.36	2.53
403082.7888	6476648.281	53	1880	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	6.36	2.53
403289.173	6476749.776	53	3130	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.36	2.53
403306.5134	6476888.178	53	2745	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	6.36	2.53
403440.9606	6476881.128	53	2786	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	6.36	2.53
403368.4425	6476843.863	53	2797	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.36	2.53
403019.9454	6476929.821	53	3461	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	6.36	2.53
403112.0249	6476919.825	53	3290	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.36	2.53
403193.2285	6476647.881	54	1815	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.48	2.55
402857.8251	6476700.699	54	3300	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.48	2.55
403263.5564	6476666.281	54	2733	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.48	2.55
402986.667	6476946.357	54	3446	*Allocasuarina fraseriana*	2	1	5-15	2	-	Low	6.48	2.55
403358.3366	6476871.926	55	2751	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.60	2.57
403363.9122	6476661.461	56	2714	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	6.72	2.59
403117.0343	6476910.449	56	3280	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	6.72	2.59
402990.0858	6476674.456	57	3057	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.84	2.61
402763.1899	6476790.928	57	1936	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	6.84	2.61
403366.6444	6476853.935	57	2795	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.84	2.61
402750.2957	6476793.467	58	1934	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.96	2.63
403442.9444	6476891.567	58	2759	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.96	2.63

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403425.1184	6476885.192	58	2787	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	6.96	2.63
403064.5625	6476634.252	59	600	*Allocasuarina fraseriana*	1	1	<5	2	-	Low	7.08	2.65
403293.4429	6476839.056	59	2811	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	7.08	2.65
403007.6873	6476935.137	59	3450	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.08	2.65
402858.6857	6476819.879	60	3326	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.20	2.67
403294.3812	6476759.469	60	3129	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	7.20	2.67
403410.2441	6476796.366	60	3166	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.20	2.67
403016.5131	6476601.65	62	3031	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.44	2.71
403078.5997	6476640.925	62	1878	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	7.44	2.71
403206.2467	6476632.151	62	1814	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.44	2.71
403275.9773	6476884.898	62	2736	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.44	2.71
403052.5607	6476692.672	63	579	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	7.56	2.73
403012.8336	6476630.549	64	3041	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.68	2.74
403265.5378	6476898.102	64	3244	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	7.68	2.74
403123.8301	6476902.31	64	3279	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.68	2.74
403099.3178	6476731.913	65	3066	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.80	2.76
403140.1668	6476705.249	65	1888	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.80	2.76
403011.044	6476880.294	65	3373	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	7.80	2.76
403366.589	6476688.757	65	2716	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	7.80	2.76
403040.9615	6476598.112	66	564	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	7.92	2.78
403453.6467	6476880.582	66	2758	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	7.92	2.78
402938.0532	6476923.283	67	3364	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	8.04	2.80
402748.0887	6476786.684	71	1933	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	8.52	2.87
402988.0674	6476607.59	71	3014	*Allocasuarina fraseriana*	3	2	>40	2	-	Moderate	8.52	2.87
402741.2599	6476788.282	72	1931	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	8.64	2.88
402901.4714	6476798.666	73	3094	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	8.76	2.90
402998.9452	6476918.869	73	3370	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	8.76	2.90
403340.9622	6476857.795	73	2750	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	8.76	2.90
403014.4827	6476917.02	73	3278	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	8.76	2.90
403259.4796	6476747.501	74	3134	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	8.88	2.92
403149.4049	6476699.017	75	1866	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	9.00	2.93
403062.2397	6476669.815	76	585	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	9.12	2.95
403290.9226	6476865.527	77	2740	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	9.24	2.97
403308.8905	6476886.981	77	2746	*Allocasuarina fraseriana*	1	2	5-15	2	-	Low	9.24	2.97
403374.7108	6476757.761	78	3155	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	9.36	2.98

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403140.3209	6476769.215	82	3431	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	9.84	3.04
403107.6772	6476728.555	84	1884	*Allocasuarina fraseriana*	2	3	>40	2	-	Moderate	10.08	3.08
403401.046	6476778.21	90	3156	*Allocasuarina fraseriana*	2	1	5-15	2	-	Low	10.80	3.17
402816.1498	6476914.703	90	793	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	10.80	3.17
403118.0519	6476722.223	96	1887	*Allocasuarina fraseriana*	3	3	>40	2	-	Moderate	11.52	3.25
403002.7332	6476728.119	100	3073	*Allocasuarina fraseriana*	2	2	15-40	2	-	Moderate	12.00	3.31
403164.0788	6476608.03	30	1838	*Banksia attenuata*	1	1	<5	2	-	Low	3.60	2.00
403086.0405	6476544.328	30	1844	*Banksia attenuata*	1	1	<5	2	-	Low	3.60	2.00
402775.253	6476766.211	30	3215	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.60	2.00
402972.2814	6476665.862	30	3060	*Banksia attenuata*	3	1	15-40	2	-	Moderate	3.60	2.00
403025.298	6476683.546	30	539	*Banksia attenuata*	1	1	<5	2	-	Low	3.60	2.00
402807.7223	6476735.145	30	3346	*Banksia attenuata*	1	1	<5	2	-	Low	3.60	2.00
402813.8944	6476752.941	30	3350	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.60	2.00
403392.5357	6476646.653	30	2704	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.60	2.00
403306.9777	6476939.399	30	3198	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.60	2.00
403298.5211	6476922.912	30	3200	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.60	2.00
403301.1779	6476922.161	30	3221	*Banksia attenuata*	2	1	5-15	2	-	Low	3.60	2.00
403283.2007	6476931.858	30	3242	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.60	2.00
403017.3899	6476939.884	30	3460	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.60	2.00
402988.7727	6476603.051	30	3013	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.60	2.00
403170.1719	6476614.185	31	1837	*Banksia attenuata*	1	1	<5	2	-	Low	3.72	2.02
402819.064	6476826.71	31	906	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.72	2.02
402803.4172	6476830.109	31	907	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.72	2.02
403059.7327	6476554.389	31	3024	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.72	2.02
402981.3004	6476622.713	31	3036	*Banksia attenuata*	1	2	5-15	2	-	Low	3.72	2.02
403078.4414	6476587.49	31	598	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.72	2.02
403062.5447	6476567.275	31	597	*Banksia attenuata*	1	2	5-15	2	-	Low	3.72	2.02
402724.0477	6476797.099	31	1695	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.72	2.02
402771.3664	6476826.924	31	1917	*Banksia attenuata*	2	1	5-15	2	-	Low	3.72	2.02
402790.9427	6476798.286	31	3403	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.72	2.02
403369.1584	6476777.799	31	3167	*Banksia attenuata*	3	1	15-40	2	-	Moderate	3.72	2.02
403435.2141	6476838.061	31	3183	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.72	2.02
402991.1777	6476949.725	31	3448	*Banksia attenuata*	2	1	5-15	2	-	Low	3.72	2.02
403123.5535	6476901.531	31	3288	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.72	2.02
403061.3082	6476919.014	31	2609	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.72	2.02

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402794.3229	6476881.129	31	790	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.72	2.02
402803.2497	6476897.842	31	792	*Banksia attenuata*	3	1	15-40	2	-	Moderate	3.72	2.02
402761.647	6476813.972	32	1923	*Banksia attenuata*	0	2	<5	2	-	Low	3.84	2.05
403138.7401	6476505.248	32	1852	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
402760.0933	6476778.151	32	3205	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.84	2.05
402848.2256	6476725.107	32	3111	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
403029.7679	6476671.172	32	555	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
402715.331	6476818.19	32	1691	*Banksia attenuata*	3	1	15-40	2	-	Moderate	3.84	2.05
402774.6938	6476815.315	32	1922	*Banksia attenuata*	3	1	15-40	2	-	Moderate	3.84	2.05
402785.9645	6476764.316	32	3426	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
402817.2139	6476722.154	32	3311	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
403265.785	6476781.372	32	3124	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
403380.5858	6476659.511	32	2712	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.84	2.05
403280.9145	6476983.718	32	3194	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.84	2.05
403301.8433	6476962.076	32	3195	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.84	2.05
403309.0923	6476956.047	32	3196	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.84	2.05
403251.8438	6476935.332	32	3238	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
403222.8726	6476986.941	32	3247	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
403217.3096	6476954.629	32	3249	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
403152.4454	6476908.566	32	3259	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.84	2.05
403078.283	6477015.62	32	2515	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
403321.0218	6477136.524	32	2846	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.84	2.05
403011.0367	6476971.308	32	3468	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
403059.8846	6476919.444	32	2603	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.84	2.05
403147.4323	6476587.032	33	1842	*Banksia attenuata*	1	1	<5	2	-	Low	3.96	2.08
402784.5037	6476788.691	33	3207	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.96	2.08
402956.5499	6476648.198	33	3052	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402875.9879	6476771.487	33	3098	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
403054.2903	6476629.721	33	588	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403050.2412	6476687.772	33	578	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403022.2963	6476660.681	33	556	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.96	2.08
402776.1379	6476882.73	33	1688	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402771.6227	6476819.831	33	1916	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402751.9341	6476810.333	33	1925	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402732.8846	6476793.302	33	1929	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08

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403097.286	6476525.92	33	1845	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403109.8222	6476521.161	33	1847	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403167.5213	6476664.489	33	1824	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402846.1385	6476825.746	33	3419	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.96	2.08
403439.7354	6476709.399	33	3143	*Banksia attenuata*	2	1	5-15	2	-	Low	3.96	2.08
403429.8624	6476813.401	33	3163	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.96	2.08
403280.6218	6476833.836	33	3189	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403413.3448	6476637.648	33	2708	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
403317.243	6476834.07	33	2807	*Banksia attenuata*	2	2	15-40	2	-	Moderate	3.96	2.08
403080.2916	6476963.204	33	2510	*Banksia attenuata*	2	3	>40	2	-	Moderate	3.96	2.08
403323.2275	6477133.441	33	2844	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
403332.3095	6477143.836	33	2848	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
403078.2134	6476912.633	33	3493	*Banksia attenuata*	2	1	5-15	2	-	Low	3.96	2.08
402792.7866	6476873.465	33	786	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
402791.8668	6476880.662	33	787	*Banksia attenuata*	3	3	>40	2	-	Moderate	3.96	2.08
402802.0877	6476890.625	33	791	*Banksia attenuata*	3	2	>40	2	-	Moderate	3.96	2.08
402811.7925	6476865.109	34	800	*Banksia attenuata*	2	1	5-15	2	-	Low	4.08	2.10
402796.6647	6476813.638	34	909	*Banksia attenuata*	2	1	5-15	2	-	Low	4.08	2.10
403003.6883	6476596.873	34	3017	*Banksia attenuata*	2	1	5-15	2	-	Low	4.08	2.10
403010.9722	6476597.163	34	3027	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.08	2.10
403037.7718	6476665.372	34	575	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.08	2.10
403100.1613	6476522.068	34	1846	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.08	2.10
403192.957	6476626.483	34	1817	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.08	2.10
402849.3492	6476816.465	34	3423	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.08	2.10
402803.3656	6476745.524	34	3349	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.08	2.10
403491.8224	6476715.32	34	3142	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.08	2.10
403426.1411	6476856.933	34	2779	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.08	2.10
403258.8657	6476943.38	34	3236	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.08	2.10
403257.9114	6476934.17	34	3239	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.08	2.10
402794.8371	6476886.787	34	789	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.08	2.10
402852.4533	6476728.362	35	3112	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.20	2.13
403065.6086	6476593.577	35	593	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.20	2.13
403058.5458	6476599.94	35	591	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
403045.645	6476633.298	35	570	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
402770.8812	6476898.201	35	1689	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.20	2.13

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402742.764	6476819.336	35	1912	*Banksia attenuata*	2	1	5-15	2	-	Low	4.20	2.13
402783.8064	6476822.385	35	1919	*Banksia attenuata*	3	1	15-40	2	-	Moderate	4.20	2.13
402775.72	6476816.877	35	1921	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
402824.0751	6476717.119	35	3309	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.20	2.13
402797.6742	6476736.935	35	3348	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.20	2.13
403471.5499	6476788.074	35	3160	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
403454.9822	6476859.31	35	2764	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.20	2.13
403419.328	6476856.869	35	2783	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
403271.6188	6476996.047	35	3228	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.20	2.13
403257.9834	6476956.675	35	3234	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
403258.6646	6476954.686	35	3235	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.20	2.13
403270.2782	6476907.237	35	3245	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
403247.1083	6476935.731	35	3246	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.20	2.13
403079.6292	6476963.197	35	2618	*Banksia attenuata*	2	1	5-15	2	-	Low	4.20	2.13
402955.4413	6476635.328	35	3005	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.20	2.13
402783.5858	6476785.689	36	3208	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.32	2.15
402718.7216	6476809.908	36	1909	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.32	2.15
402966.8879	6476946.392	36	3366	*Banksia attenuata*	2	1	5-15	2	-	Low	4.32	2.15
403456.8021	6476846.911	36	2769	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.32	2.15
403415.3534	6476877.007	36	2785	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.32	2.15
403199.2588	6476952.02	36	3253	*Banksia attenuata*	1	1	<5	2	-	Low	4.32	2.15
403015.4902	6476579.691	37	3020	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.44	2.18
403022.6544	6476652.813	37	560	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.44	2.18
402718.2966	6476794.827	37	1969	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
402728.0925	6476799.687	37	1906	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
403437.4694	6476718.911	37	3144	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.44	2.18
403344.7493	6476777.126	37	3169	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
403451.1909	6476859.94	37	2762	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
403394.5434	6476855.86	37	2791	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
403266.9107	6476953.322	37	3225	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.44	2.18
403011.4085	6476941.934	37	3457	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.44	2.18
403099.888	6476872.153	37	3266	*Banksia attenuata*	2	1	5-15	2	-	Low	4.44	2.18
402963.4173	6476642.499	38	3050	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
403073.0891	6476633.224	38	1877	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
403028.9263	6476660.078	38	558	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.56	2.20

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403132.816	6476511.29	38	1851	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.56	2.20
403441.6489	6476757.529	38	3146	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.56	2.20
403352.1858	6476751.145	38	3150	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.56	2.20
403374.088	6476746.695	38	3152	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.56	2.20
403460.9801	6476855.486	38	2765	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
403420.3773	6476855.992	38	2781	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
403323.9428	6477137.882	38	2845	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
402791.5816	6476870.793	38	785	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.56	2.20
403022.392	6476660.571	39	557	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.68	2.23
402717.2441	6476796.036	39	1694	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.68	2.23
403157.3726	6476616.725	39	1836	*Banksia attenuata*	1	1	<5	2	-	Low	4.68	2.23
402748.6184	6476830.699	39	1666	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.68	2.23
403279.8475	6476986.479	39	3193	*Banksia attenuata*	2	3	>40	2	-	Moderate	4.68	2.23
403066.439	6476896.78	39	3269	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.68	2.23
403055.2516	6476678.286	40	577	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.80	2.25
403041.9092	6476628.052	40	569	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.80	2.25
402747.7937	6476807.855	40	1926	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.80	2.25
402785.1606	6476779.275	40	3401	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.80	2.25
403462.2137	6476754.396	40	3147	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.80	2.25
403386.5169	6476662.782	40	2711	*Banksia attenuata*	3	3	>40	2	-	Moderate	4.80	2.25
403383.0136	6476854.199	40	2793	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.80	2.25
403247.4465	6476960.123	40	3265	*Banksia attenuata*	2	2	15-40	2	-	Moderate	4.80	2.25
403329.211	6477131.169	40	2843	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.80	2.25
403041.7873	6476951.866	40	3485	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.80	2.25
402780.9908	6476869.917	40	784	*Banksia attenuata*	3	1	15-40	2	-	Moderate	4.80	2.25
403126.0759	6476513.554	41	1849	*Banksia attenuata*	1	1	<5	2	-	Low	4.92	2.28
402985.1377	6476617.206	41	3032	*Banksia attenuata*	3	1	15-40	2	-	Moderate	4.92	2.28
403041.9316	6476655.767	41	573	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.92	2.28
402775.0899	6476803.457	41	1938	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.92	2.28
403334.736	6476765.17	41	3170	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.92	2.28
403131.0502	6476869.232	41	3285	*Banksia attenuata*	3	2	>40	2	-	Moderate	4.92	2.28
403154.1318	6476890.291	41	3287	*Banksia attenuata*	1	2	5-15	2	-	Low	4.92	2.28
403062.233	6476951.393	41	2623	*Banksia attenuata*	1	2	5-15	2	-	Low	4.92	2.28
402974.2578	6476636.947	42	3044	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.04	2.30
403060.6482	6476738.2	42	3070	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.04	2.30

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403023.7895	6476642.847	42	562	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.04	2.30
403027.923	6476656.078	42	559	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.04	2.30
403130.669	6476508.166	42	1850	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.04	2.30
403034.0082	6476933.833	42	3464	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.04	2.30
403081.3649	6476979.842	42	2622	*Banksia attenuata*	1	2	5-15	2	-	Low	5.04	2.30
402847.6052	6476720.667	43	3114	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.16	2.32
402732.8546	6476816.471	43	1911	*Banksia attenuata*	2	3	>40	2	-	Moderate	5.16	2.32
403174.1465	6476654.353	43	1823	*Banksia attenuata*	2	1	5-15	2	-	Low	5.16	2.32
403078.1805	6476946.223	43	3291	*Banksia attenuata*	1	2	5-15	2	-	Low	5.16	2.32
402788.9179	6476762.238	44	3355	*Banksia attenuata*	1	3	15-40	2	-	Moderate	5.28	2.34
403319.9389	6476738.647	44	2727	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.28	2.34
402791.2896	6476881.654	44	788	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.28	2.34
403270.9414	6476786.52	45	22	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.40	2.37
402836.8282	6476819.561	45	3418	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.40	2.37
403189.246	6476799.386	45	3122	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.40	2.37
403417.633	6476805.637	45	3164	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.40	2.37
403281.216	6476820.982	45	3187	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.40	2.37
403311.0923	6476834.012	45	2806	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.40	2.37
403038.236	6476937.088	45	3481	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.40	2.37
403335.567	6476837.79	46	2801	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.52	2.39
403160.6031	6476645.468	47	1832	*Banksia attenuata*	1	1	<5	2	-	Low	5.64	2.41
403154.9351	6476644.416	47	1833	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.64	2.41
402845.08	6476727.517	48	3110	*Banksia attenuata*	2	2	15-40	2	-	Moderate	5.76	2.43
402790.0037	6476837.521	48	1942	*Banksia attenuata*	3	3	>40	2	-	Moderate	5.76	2.43
403152.3163	6476771.656	48	3432	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.76	2.43
403431.038	6476778.935	49	3158	*Banksia attenuata*	3	2	>40	2	-	Moderate	5.88	2.45
403286.9308	6476827.133	50	3188	*Banksia attenuata*	3	3	>40	2	-	Moderate	6.00	2.47
403438.6598	6476854.057	51	2774	*Banksia attenuata*	3	2	>40	2	-	Moderate	6.12	2.49
402811.2132	6476866.323	52	799	*Banksia attenuata*	3	3	>40	2	-	Moderate	6.24	2.51
402799.6935	6476803.579	53	910	*Banksia attenuata*	3	2	>40	2	-	Moderate	6.36	2.53
403014.7706	6476956.71	53	3455	*Banksia attenuata*	3	2	>40	2	-	Moderate	6.36	2.53
403037.5821	6476896.065	54	3277	*Banksia attenuata*	1	1	<5	2	-	Low	6.48	2.55
402727.7708	6476803.674	55	1907	*Banksia attenuata*	3	3	>40	2	-	Moderate	6.60	2.57
403161.1927	6476623.08	57	1835	*Banksia attenuata*	1	1	<5	2	-	Low	6.84	2.61
403321.6613	6476796.974	59	3177	*Banksia attenuata*	3	3	>40	2	-	Moderate	7.08	2.65

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403017.5492	6476973.143	64	3470	*Banksia attenuata*	3	2	>40	2	-	Moderate	7.68	2.74
403059.2016	6476761.133	30	3076	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.60	2.00
402838.3382	6476789.976	30	3335	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	3.60	2.00
403460.7417	6476870.783	30	2761	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.60	2.00
402722.5792	6476812.272	31	1910	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	3.72	2.02
402839.7522	6476750.525	31	3314	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.72	2.02
403130.8188	6477064.449	31	2868	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.72	2.02
403018.9185	6476757.871	32	3075	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.84	2.05
402714.1318	6476844.895	32	1657	*Banksia ilicifolia*	3	1	15-40	2	-	Moderate	3.84	2.05
403395.8221	6476820.508	32	3181	*Banksia ilicifolia*	3	1	15-40	2	-	Moderate	3.84	2.05
402942.6174	6476790.74	33	3080	*Banksia ilicifolia*	2	2	15-40	2	-	Moderate	3.96	2.08
402706.9033	6476838.73	33	1655	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	3.96	2.08
403454.3167	6476859.636	33	2763	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	3.96	2.08
403133.3218	6477039.863	35	2501	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	4.20	2.13
403130.9521	6477060.349	35	2867	*Banksia ilicifolia*	2	2	15-40	2	-	Moderate	4.20	2.13
403442.7492	6476811.637	35	3161	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	4.20	2.13
403161.241	6476658.111	36	1831	*Banksia ilicifolia*	2	3	>40	2	-	Moderate	4.32	2.15
403138.1618	6477028.379	38	3264	*Banksia ilicifolia*	3	2	>40	2	-	Moderate	4.56	2.20
403082.4198	6476867.997	40	3379	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	4.80	2.25
403230.6846	6476971.383	40	3233	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	4.80	2.25
403070.4948	6476868.106	42	3378	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	5.04	2.30
402816.7785	6476798.198	49	3411	*Banksia ilicifolia*	2	3	>40	2	-	Moderate	5.88	2.45
403009.9527	6476745.259	50	3074	*Banksia ilicifolia*	2	2	15-40	2	-	Moderate	6.00	2.47
403168.4784	6476653.302	50	1825	*Banksia ilicifolia*	2	3	>40	2	-	Moderate	6.00	2.47
403138.455	6476665.989	51	1868	*Banksia ilicifolia*	2	3	>40	2	-	Moderate	6.12	2.49
402823.3997	6476778.528	58	3340	*Banksia ilicifolia*	3	3	>40	2	-	Moderate	6.96	2.63
403086.684	6476566.394	30	1856	*Banksia menziesii*	1	1	<5	2	-	Low	3.60	2.00
403065.2773	6476548.455	30	3023	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.60	2.00
402963.0164	6476634.846	30	3049	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.60	2.00
402730.9215	6476840.731	30	1690	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.60	2.00
403114.7039	6476525.309	30	1848	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.60	2.00
403071.5678	6476573.79	30	1855	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.60	2.00
403086.4854	6476567.39	30	1857	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.60	2.00
403255.0827	6476611.437	30	1802	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.60	2.00
402825.4919	6476737.419	30	3312	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.60	2.00

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402802.9384	6476730.665	30	3345	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.60	2.00
402811.4588	6476770.322	30	3351	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.60	2.00
403375.0421	6476675.422	30	2717	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.60	2.00
403456.0716	6476884.374	30	2756	*Banksia menziesii*	2	1	5-15	2	-	Low	3.60	2.00
403305.923	6476950.918	30	3197	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.60	2.00
403081.3027	6476996.47	30	2513	*Banksia menziesii*	3	1	15-40	2	-	Moderate	3.60	2.00
403304.1449	6477019.189	30	2813	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.60	2.00
403006.8119	6476967.721	30	3467	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.60	2.00
403037.0306	6476904.374	30	3272	*Banksia menziesii*	2	1	5-15	2	-	Low	3.60	2.00
402811.7493	6476899.696	31	794	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.72	2.02
402821.0113	6476830.941	31	905	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.72	2.02
403031.9236	6476723.517	31	3071	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.72	2.02
403005.6489	6476709.966	31	550	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.72	2.02
402773.2772	6476845.012	31	1918	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.72	2.02
402738.0793	6476834.369	31	1665	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.72	2.02
403269.7121	6476605.478	31	1801	*Banksia menziesii*	3	1	15-40	2	-	Moderate	3.72	2.02
403251.6189	6476617.502	31	1803	*Banksia menziesii*	2	1	5-15	2	-	Low	3.72	2.02
403200.1222	6476579.104	31	1813	*Banksia menziesii*	2	1	5-15	2	-	Low	3.72	2.02
402863.5029	6476810.834	31	3425	*Banksia menziesii*	2	1	5-15	2	-	Low	3.72	2.02
402850.8674	6476816.036	31	3430	*Banksia menziesii*	2	1	5-15	2	-	Low	3.72	2.02
402844.6091	6476767.31	31	3315	*Banksia menziesii*	1	1	<5	2	-	Low	3.72	2.02
402837.9917	6476806.602	31	3331	*Banksia menziesii*	2	1	5-15	2	-	Low	3.72	2.02
402810.707	6476729.741	31	3344	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.72	2.02
402862.8352	6476811.382	31	3356	*Banksia menziesii*	1	1	<5	2	-	Low	3.72	2.02
403508.7671	6476654.286	31	3137	*Banksia menziesii*	1	1	<5	2	-	Low	3.72	2.02
403413.1172	6476631.659	31	2709	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.72	2.02
403013.1964	6476973.102	31	3469	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.72	2.02
402931.4553	6476639.98	31	3001	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.72	2.02
402946.2893	6476642.448	31	3002	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.72	2.02
403273.1355	6476784.656	32	23	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
402960.7113	6476648.459	32	3053	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
402993.3419	6476650.319	32	3056	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
402876.7893	6476776.815	32	3099	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
402865.2457	6476766.618	32	3103	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05
403043.573	6476702.453	32	543	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402791.228	6476898.171	32	1686	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
402764.0118	6476824.083	32	1915	*Banksia menziesii*	2	1	5-15	2	-	Low	3.84	2.05
403257.2601	6476611.347	32	1805	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
403240.0229	6476643.001	32	1811	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403196.862	6476613.771	32	1816	*Banksia menziesii*	2	3	>40	2	-	Moderate	3.84	2.05
403108.9478	6476814.592	32	3435	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05
402835.7456	6476723.881	32	3350	*Banksia menziesii*	2	1	5-15	2	-	Low	3.84	2.05
402827.7479	6476729.016	32	3307	*Banksia menziesii*	3	1	15-40	2	-	Moderate	3.84	2.05
402833.7538	6476744.371	32	3313	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
402826.7812	6476751.178	32	3343	*Banksia menziesii*	1	3	15-40	2	-	Moderate	3.84	2.05
403054.2646	6476873.164	32	3384	*Banksia menziesii*	1	2	5-15	2	-	Low	3.84	2.05
403237.2145	6476780.438	32	3118	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
403284.3204	6476772.678	32	3128	*Banksia menziesii*	3	1	15-40	2	-	Moderate	3.84	2.05
403277.813	6476971.384	32	3226	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403235.7496	6476976.198	32	3232	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403255.5819	6476940.356	32	3237	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403213.1925	6476989.843	32	3248	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
403195.4942	6476909.637	32	3255	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
403169.4828	6476898.195	32	3257	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403149.2738	6476933.812	32	3260	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.84	2.05
403147.3561	6476986.673	32	3263	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05
403119.5729	6477012.573	32	2503	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05
403122.4962	6476963.491	32	2505	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.84	2.05
403035.7296	6476962.007	32	3479	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.84	2.05
403099.6835	6476572.725	33	1858	*Banksia menziesii*	1	1	<5	2	-	Low	3.96	2.08
402949.8086	6476650.573	33	3065	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.96	2.08
402987.6452	6476762.564	33	3078	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.96	2.08
402853.5604	6476761.408	33	3107	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.96	2.08
403061.0189	6476688.871	33	582	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.96	2.08
403045.5624	6476642.055	33	571	*Banksia menziesii*	2	3	>40	2	-	Moderate	3.96	2.08
402732.6786	6476795.074	33	1928	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.96	2.08
403251.4425	6476606.082	33	1804	*Banksia menziesii*	1	1	<5	2	-	Low	3.96	2.08
402853.0081	6476819.825	33	3422	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.96	2.08
402825.7744	6476727.556	33	3308	*Banksia menziesii*	2	3	>40	2	-	Moderate	3.96	2.08
402875.4033	6476803.297	33	3321	*Banksia menziesii*	2	2	15-40	2	-	Moderate	3.96	2.08

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402834.4606	6476789.718	33	3336	*Banksia menziesii*	3	3	>40	2	-	Moderate	3.96	2.08
402822.3509	6476759.339	33	3342	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.96	2.08
403191.4229	6476889.755	33	3254	*Banksia menziesii*	3	2	>40	2	-	Moderate	3.96	2.08
402779.5756	6476779.444	34	3220	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.08	2.10
402838.22	6476882.541	34	822	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
402831.418	6476831.261	34	904	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
403018.2586	6476787.685	34	3077	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.08	2.10
402886.021	6476791.314	34	3095	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
402883.3132	6476777.431	34	3096	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
403055.5986	6476701.68	34	580	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.08	2.10
402732.595	6476933.867	34	1674	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
403174.1377	6476665.328	34	1822	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.08	2.10
403115.9635	6477013.98	34	2504	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.08	2.10
403045.5425	6476985.158	34	2667	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.08	2.10
403146.575	6476507.318	35	1854	*Banksia menziesii*	1	1	<5	2	-	Low	4.20	2.13
402799.9035	6476871.426	35	820	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.20	2.13
402862.8358	6476761.274	35	3105	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.20	2.13
403062.3407	6476588.89	35	594	*Banksia menziesii*	2	3	>40	2	-	Moderate	4.20	2.13
402741.3849	6476835.065	35	1664	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.20	2.13
403181.0215	6476587.571	35	1819	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.20	2.13
403163.4154	6476678.419	35	1826	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.20	2.13
402820.0589	6476721.515	35	3310	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.20	2.13
402834.1815	6476809.226	35	3332	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.20	2.13
402836.5332	6476800.713	35	3333	*Banksia menziesii*	1	3	15-40	2	-	Moderate	4.20	2.13
403276.4459	6477026.134	35	3191	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.20	2.13
403262.1498	6476996.623	35	3230	*Banksia menziesii*	2	1	5-15	2	-	Low	4.20	2.13
403157.6333	6476930.454	35	3256	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.20	2.13
403115.4632	6477016.858	35	2502	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.20	2.13
403015.7842	6476979.667	35	3471	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.20	2.13
402768.7776	6476770.473	36	3213	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.32	2.15
402852.0322	6476742.881	36	3108	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.32	2.15
402727.3726	6476815.754	36	1908	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.32	2.15
403231.9678	6476604.014	36	1807	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.32	2.15
402787.6271	6476818.652	36	3404	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.32	2.15
402876.8716	6476818.166	36	3358	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.32	2.15

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403170.7231	6476927.252	36	3258	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.32	2.15
403062.714	6476920.469	36	2608	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.32	2.15
403057.0092	6476983.493	36	2621	*Banksia menziesii*	3	1	15-40	2	-	Moderate	4.32	2.15
402783.8366	6476769.174	37	3408	*Banksia menziesii*	2	1	5-15	2	-	Low	4.44	2.18
402795.0949	6476769.502	37	3409	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.44	2.18
402798.1733	6476764.21	37	3352	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.44	2.18
403024.1355	6476957.131	37	3474	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.44	2.18
402811.3065	6476816.438	38	912	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.56	2.20
403029.7445	6476643.568	38	561	*Banksia menziesii*	2	3	>40	2	-	Moderate	4.56	2.20
403016.3825	6476665.614	38	553	*Banksia menziesii*	1	2	5-15	2	-	Low	4.56	2.20
402707.5253	6476813.017	38	1693	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.56	2.20
402755.3696	6476837.304	38	1667	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.56	2.20
402868.2314	6476791.146	38	3323	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.56	2.20
403316.7003	6476942.04	38	3199	*Banksia menziesii*	2	3	>40	2	-	Moderate	4.56	2.20
403150.1713	6476979.161	38	3262	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.56	2.20
403140.8302	6476504.381	39	1853	*Banksia menziesii*	1	1	<5	2	-	Low	4.68	2.23
403015.6086	6476687.445	39	540	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.68	2.23
402774.7869	6476795.473	39	1937	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.68	2.23
402794.4123	6476801.645	39	3405	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.68	2.23
403023.7961	6476983.068	39	3477	*Banksia menziesii*	3	2	>40	2	-	Moderate	4.68	2.23
403043.9716	6476961.087	39	3486	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.68	2.23
402780.7803	6476772.138	40	3217	*Banksia menziesii*	1	1	<5	2	-	Low	4.80	2.25
402724.1584	6476925.362	40	1675	*Banksia menziesii*	2	1	5-15	2	-	Low	4.80	2.25
402796.3126	6476900.88	40	1685	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.80	2.25
402794.0787	6476786.897	40	3407	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.80	2.25
402843.9846	6476733.271	41	3109	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.92	2.28
403184.4682	6476593.368	41	1820	*Banksia menziesii*	2	2	15-40	2	-	Moderate	4.92	2.28
403269.1512	6476996.799	41	3229	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.92	2.28
403226.6102	6476921.681	41	3250	*Banksia menziesii*	3	3	>40	2	-	Moderate	4.92	2.28
402775.8522	6476762.89	42	3216	*Banksia menziesii*	2	2	15-40	2	-	Moderate	5.04	2.30
402807.8914	6476887.354	42	798	*Banksia menziesii*	3	2	>40	2	-	Moderate	5.04	2.30
403192.2528	6476630.911	42	1818	*Banksia menziesii*	2	2	15-40	2	-	Moderate	5.04	2.30
403147.9598	6476972.821	42	3261	*Banksia menziesii*	3	3	>40	2	-	Moderate	5.04	2.30
403216.0725	6476593.665	43	1810	*Banksia menziesii*	3	1	15-40	2	-	Moderate	5.16	2.32
403018.9797	6476941.895	43	3459	*Banksia menziesii*	3	1	15-40	2	-	Moderate	5.16	2.32

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402802.0914	6476790.188	44	3406	*Banksia menziesii*	2	1	5-15	2	-	Low	5.28	2.34
403318.2966	6476973.538	44	2815	*Banksia menziesii*	2	1	5-15	2	-	Low	5.28	2.34
403364.283	6477215.751	44	2835	*Banksia menziesii*	3	3	>40	2	-	Moderate	5.28	2.34
402780.4193	6476800.293	45	1939	*Banksia menziesii*	2	2	15-40	2	-	Moderate	5.40	2.37
402822.8139	6476810.449	45	3414	*Banksia menziesii*	2	2	15-40	2	-	Moderate	5.40	2.37
403031.231	6476947.332	45	3465	*Banksia menziesii*	3	3	>40	2	-	Moderate	5.40	2.37
403257.9139	6476984.167	46	3231	*Banksia menziesii*	3	3	>40	2	-	Moderate	5.52	2.39
402822.5722	6476815.99	47	3415	*Banksia menziesii*	1	1	<5	2	-	Low	5.64	2.41
402996.0719	6476591.702	48	3015	*Banksia menziesii*	3	2	>40	2	-	Moderate	5.76	2.43
402841.524	6476793.332	49	3337	*Banksia menziesii*	2	2	15-40	2	-	Moderate	5.88	2.45
403245.8847	6476633.522	50	1809	*Banksia menziesii*	2	2	15-40	2	-	Moderate	6.00	2.47
403044.7602	6476707.01	52	544	*Banksia menziesii*	2	3	>40	2	-	Moderate	6.24	2.51
402846.6733	6476709.129	53	3301	*Banksia menziesii*	2	1	5-15	2	-	Low	6.36	2.53
402474.2472	6477401.898	30	207	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.60	2.00
402553.6659	6477420.167	30	261	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.60	2.00
402531.4246	6477500.106	30	278	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
403222.0113	6477701.519	30	2260	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.60	2.00
403205.3878	6477708.014	30	2266	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
402732.6441	6477618.634	30	2293	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
402720.0529	6477629.046	30	2296	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.60	2.00
402710.2664	6477613.101	30	2299	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.60	2.00
403415.3431	6477099.609	30	2820	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
403404.6022	6477104.607	30	2821	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
403308.7247	6477387.389	30	2007	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
403197.7401	6477233.805	30	2020	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
403133.0256	6477432.738	30	2028	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
402997.7153	6477289.786	30	2037	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
402433.6277	6477364.042	30	2693	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.60	2.00
402493.0154	6477109.523	30	2238	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.60	2.00
402550.144	6477272.582	30	2960	*corymbia calophylla*	2	1	5-15	2	-	Low	3.60	2.00
402658.8663	6477344.339	30	2977	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.60	2.00
402740.4616	6477422.601	30	2990	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.60	2.00
403013.2548	6477488.368	30	45	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.60	2.00
403020.9001	6477490.546	30	47	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.60	2.00
402467.5819	6477426.112	31	209	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402466.483	6477472.108	31	273	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
402499.7323	6477468.876	31	276	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403195.5323	6477709.362	31	2265	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
402605.9215	6477558.458	31	322	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
402775.9557	6476781.959	31	3218	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
403202.4287	6476575.356	31	1812	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403126.9395	6476873.627	31	3438	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
403416.0027	6476687.115	31	3140	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
403421.4284	6476693.817	31	3141	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
403360.9416	6477178.582	31	2839	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
403323.1759	6477159.049	31	2849	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403302.6024	6477142.891	31	2857	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.72	2.02
403333.0525	6477286.184	31	2875	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403126.9974	6477429.688	31	2029	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403052.1609	6477346.948	31	2034	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
402990.8587	6477264.225	31	2044	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403126.9542	6476872.075	31	3286	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403038.0444	6477248.263	31	2054	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
402421.842	6477239.77	31	2145	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
402771.4095	6477312.48	31	2921	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.72	2.02
402695.1626	6477239.147	31	2936	*Corymbia calophylla*	0	2	<5	2	-	Low	3.72	2.02
402676.0894	6477234.532	31	2937	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.72	2.02
402662.6967	6477269.658	31	2941	*Corymbia calophylla*	0	2	<5	2	-	Low	3.72	2.02
402609.4436	6477306.623	31	2948	*Corymbia calophylla*	1	2	5-15	2	-	Low	3.72	2.02
402430.5815	6477375.875	31	2696	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.72	2.02
402531.2642	6477117.867	31	2232	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
402501.3606	6477097.74	31	2239	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.72	2.02
402665.5858	6477394.289	31	2984	*corymbia calophylla*	1	2	5-15	2	-	Low	3.72	2.02
402582.5049	6477522.762	31	113	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.72	2.02
403024.5175	6477498.34	31	54	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403023.3166	6477495.225	31	55	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.72	2.02
403009.0364	6477534.223	31	62	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.72	2.02
402550.3082	6477305.176	32	234	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402584.2251	6477371.236	32	251	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
402512.699	6477438.846	32	267	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403258.1499	6477703.078	32	3394	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.84	2.05
402898.9417	6477597.259	32	2287	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.84	2.05
402897.0529	6477586.821	32	2288	*Corymbia calophylla*	2	3	>40	2	-	Moderate	3.84	2.05
402720.9306	6477616.306	32	2294	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
402725.6289	6477629.875	32	2297	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.84	2.05
402736.1146	6477601.927	32	305	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
402613.8065	6477565.295	32	323	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.84	2.05
402783.1084	6476786.128	32	3206	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
402763.2201	6476777.737	32	3211	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.84	2.05
402851.6488	6476893.532	32	823	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
403493.5801	6476679.308	32	3139	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
403324.6834	6477169.816	32	2850	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
403344.1039	6477308.57	32	2881	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.84	2.05
403336.0398	6477300.623	32	2882	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
403170.3321	6477330.325	32	2013	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402984.4896	6477277.246	32	2042	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402718.7026	6477311.76	32	2932	*Corymbia calophylla*	2	1	5-15	2	-	Low	3.84	2.05
402432.3994	6477383.763	32	2699	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402509.8403	6477111.678	32	2236	*Corymbia calophylla*	2	3	>40	2	-	Moderate	3.84	2.05
402487.3967	6477083.307	32	2243	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.84	2.05
402575.9581	6477284.91	32	2966	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.84	2.05
402673.5159	6477396.359	32	2985	*corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402543.5101	6477483.148	32	126	*corymbia calophylla*	2	3	>40	2	-	Moderate	3.84	2.05
402981.5822	6477525.095	32	31	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
403012.1568	6477484.367	32	49	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
403020.2925	6477494.753	32	56	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.84	2.05
402543.7412	6477438.808	33	259	*Corymbia calophylla*	0	2	<5	2	-	Low	3.96	2.08
402488.6079	6477454.359	33	266	*Corymbia calophylla*	2	3	>40	2	-	Moderate	3.96	2.08
402480.9774	6477460.605	33	265	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.96	2.08
403258.6129	6477694.103	33	3396	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
403254.9879	6477757.48	33	2251	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
402897.2078	6477540.373	33	2278	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.96	2.08
402911.8273	6477565.676	33	2284	*Corymbia calophylla*	3	1	>40	2	-	Moderate	3.96	2.08
402914.1251	6477572.903	33	2285	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
402712.0487	6477614.781	33	301	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402642.0686	6477609.019	33	310	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
402916.3605	6476805.347	33	3085	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
403119.5257	6476867.017	33	3440	*Corymbia calophylla*	2	2	>40	2	-	Moderate	3.96	2.08
403272.5161	6476870.564	33	2738	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
403310.188	6476859.722	33	2748	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
403311.2205	6476860.619	33	2749	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
403306.9319	6477125.306	33	2860	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
403205.0139	6477154.832	33	2872	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
403330.4037	6477336.377	33	2893	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
403121.1188	6477430.852	33	2031	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
402665.3446	6477219.908	33	2952	*Corymbia calophylla*	0	1	<5	2	-	Low	3.96	2.08
402545.8615	6477285.068	33	2961	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.96	2.08
402640.7275	6477570.76	33	108	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.96	2.08
402580.9318	6477509	33	115	*corymbia calophylla*	2	1	5-15	2	-	Low	3.96	2.08
402575.0699	6477508.39	33	117	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.96	2.08
402562.6112	6477534.767	33	124	*corymbia calophylla*	2	2	>40	2	-	Moderate	3.96	2.08
402985.0235	6477521.469	33	34	*Corymbia calophylla*	3	3	>40	2	-	Moderate	3.96	2.08
402986.032	6477434.678	33	38	*Corymbia calophylla*	3	2	>40	2	-	Moderate	3.96	2.08
402474.011	6477317.09	34	204	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.08	2.10
402475.9673	6477440.049	34	211	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.08	2.10
402564.8803	6477345.333	34	235	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.08	2.10
402494.248	6477398.54	34	247	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
402496.8231	6477376.504	34	243	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
402531.2921	6477494.118	34	275	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.08	2.10
402515.2509	6477509.043	34	280	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
402509.7454	6477510.764	34	282	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.08	2.10
402863.2146	6476771.255	34	3104	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403412.1414	6477097.916	34	2819	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403367.5564	6477219.883	34	2836	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403342.8208	6477133.071	34	2841	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403242.6544	6477398.74	34	2005	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.08	2.10
403305.7967	6477376.72	34	2008	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.08	2.10
403197.118	6477239.564	34	2021	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403215.1324	6477225.987	34	2022	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403054.2146	6477229.57	34	2057	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402749.551	6477312.162	34	2927	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
402733.54	6477333.961	34	2929	*Corymbia calophylla*	1	1	<5	2	-	Low	4.08	2.10
402670.5132	6477273.723	34	2939	*Corymbia calophylla*	0	1	<5	2	-	Low	4.08	2.10
402501.185	6477096.297	34	2240	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.08	2.10
402574.3537	6477304.406	34	2963	*corymbia calophylla*	3	2	>40	2	-	Moderate	4.08	2.10
403013.4775	6477484.823	34	48	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.08	2.10
402579.3506	6477376.289	35	252	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
402505.4997	6477399.645	35	246	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.20	2.13
402488.5671	6477378.865	35	253	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.20	2.13
402515.4969	6477413.264	35	258	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403248.3419	6477749.657	35	2249	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
403258.6643	6477748.978	35	2250	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
403376.7747	6477135.275	35	2822	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403082.9079	6477127.297	35	2869	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.20	2.13
403082.1724	6477155.116	35	2870	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403361.6182	6477287.783	35	2878	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403341.4737	6477366.856	35	2895	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403323.1253	6477345.51	35	2897	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403105.7472	6477425.054	35	2032	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.20	2.13
402993.6273	6477291.743	35	2038	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
402989.0612	6477274.185	35	2041	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
403128.108	6476880.179	35	3284	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
403032.891	6477242.782	35	2053	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
402423.6652	6477237.127	35	2146	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
402424.7817	6477368.725	35	2691	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
402423.3529	6477359.732	35	2690	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
402547.6065	6477111.038	35	2234	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.20	2.13
402513.4404	6477111.269	35	2235	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
402603.9543	6477346.591	35	2971	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.20	2.13
402643.5843	6477329.118	35	2975	*corymbia calophylla*	2	3	>40	2	-	Moderate	4.20	2.13
402684.3016	6477386.706	35	2986	*corymbia calophylla*	3	2	>40	2	-	Moderate	4.20	2.13
402736.1643	6477426.662	35	2989	*corymbia calophylla*	1	2	5-15	2	-	Low	4.20	2.13
402590.0282	6477527.821	35	110	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.20	2.13
402571.2732	6477529.528	35	122	*corymbia calophylla*	3	3	>40	2	-	Moderate	4.20	2.13
402516.5715	6477280.024	36	239	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.32	2.15

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403183.8855	6477669.787	36	2267	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.32	2.15
403162.7673	6477681.228	36	2270	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.32	2.15
402895.5607	6477584.478	36	2289	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.32	2.15
402889.5102	6477573.779	36	2290	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.32	2.15
402692.2321	6477588.653	36	307	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
402911.618	6476786.457	36	3091	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
402839.2603	6476792.535	36	3319	*Corymbia calophylla*	2	1	5-15	2	-	Low	4.32	2.15
403381.2324	6477144.296	36	2823	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
403375.735	6477225.725	36	2833	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.32	2.15
403340.0901	6477131.604	36	2842	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
403307.1988	6477137.17	36	2858	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
403293.2557	6477371.835	36	2004	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
403013.2555	6477287.716	36	2036	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.32	2.15
402995.5577	6477267.705	36	2040	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.32	2.15
402607.4337	6477239.092	36	2951	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.32	2.15
402579.5331	6477297.138	36	2965	*corymbia calophylla*	3	3	>40	2	-	Moderate	4.32	2.15
402742.8947	6477565.52	36	3000	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.32	2.15
402581.5722	6477511.334	36	114	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.32	2.15
402483.9534	6477336.473	37	205	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.44	2.18
402468.195	6477411.374	37	208	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.44	2.18
402389.2	6477507.957	37	222	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.44	2.18
402579.481	6477372.521	37	241	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
402483.2613	6477419.388	37	269	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.44	2.18
403253.0712	6477760.011	37	2252	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
403251.6611	6477759	37	2253	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
402685.774	6477591.03	37	308	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.44	2.18
402926.2263	6476792.803	37	3089	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.44	2.18
402912.1407	6476791.228	37	3090	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
402852.1398	6476791.548	37	3320	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
403404.7876	6477145.294	37	2825	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.44	2.18
403296.0446	6477155.911	37	2856	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
403332.344	6477301.143	37	2883	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.44	2.18
402757.0741	6477447.258	37	2992	*corymbia calophylla*	2	1	5-15	2	-	Low	4.44	2.18
402511.8515	6477518.212	37	125	*corymbia calophylla*	2	1	5-15	2	-	Low	4.44	2.18
403010.9444	6477482.471	37	50	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.44	2.18

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403250.2323	6477689.59	38	3398	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.56	2.20
403225.1461	6477720.394	38	2258	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.56	2.20
402920.1749	6477563.648	38	2283	*Corymbia calophylla*	2	1	5-15	2	-	Low	4.56	2.20
402716.8783	6477624.471	38	2295	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.56	2.20
402837.8299	6476773.676	38	3317	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.56	2.20
402951.3505	6476978.283	38	3363	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.56	2.20
403319.6387	6476619.694	38	2702	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.56	2.20
403305.7436	6477151.014	38	2855	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
403299.9374	6477134.441	38	2859	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
403303.182	6477352.861	38	2900	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
403297.3657	6477357.462	38	2002	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
403127.0931	6477429.578	38	2030	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.56	2.20
402727.4002	6477262.732	38	2917	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402776.5699	6477307.208	38	2920	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402734.2824	6477335.52	38	2928	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.56	2.20
402433.513	6477376.125	38	2697	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.56	2.20
402496.2811	6477114.432	38	2237	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402497.3715	6477099.254	38	2241	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.56	2.20
402737.7657	6477567.466	38	101	*corymbia calophylla*	3	1	>40	2	-	Moderate	4.56	2.20
402636.5184	6477565.51	38	109	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.56	2.20
402635.0549	6477410.296	38	130	*corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402990.9434	6477525.96	38	33	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402982.3282	6477446.061	38	39	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
403012.8646	6477529.714	38	60	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.56	2.20
402506.6122	6477282.368	39	238	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
402531.0145	6477493.45	39	274	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403194.674	6477720.107	39	2263	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.68	2.23
403161.6264	6477681.772	39	2271	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
402871.8885	6476834.748	39	902	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.68	2.23
403411.5663	6476987.94	39	2818	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403387.9077	6477179.168	39	2826	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403324.241	6477146.421	39	2847	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.68	2.23
403351.8698	6477307.978	39	2880	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403345.8034	6477339.183	39	2894	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
402646.4195	6477279.592	39	2942	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.68	2.23

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402435.004	6477368.601	39	2694	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.68	2.23
402594.8439	6477259.37	39	2954	*corymbia calophylla*	3	3	>40	2	-	Moderate	4.68	2.23
402685.4296	6477437.49	39	2993	*corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403009.2661	6477499.859	39	46	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.68	2.23
403021.6116	6477505.408	39	57	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403027.8772	6477503.361	39	58	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
403000.1651	6477531.59	39	64	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.68	2.23
402388.1622	6477507.615	40	221	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.80	2.25
402505.7173	6477376.699	40	245	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.80	2.25
403255.5537	6477687.312	40	3397	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.80	2.25
402922.2941	6477549.7	40	2281	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.80	2.25
402703.5225	6477625.675	40	304	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.80	2.25
402720.3678	6477605.769	40	306	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.80	2.25
402635.4956	6477593.547	40	311	*Corymbia calophylla*	1	3	>40	2	-	Moderate	4.80	2.25
402600.0998	6477593.545	40	317	*Corymbia calophylla*	1	3	>40	2	-	Moderate	4.80	2.25
402854.0848	6476856.086	40	825	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.80	2.25
402869.0447	6476775.19	40	3102	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
402680.2222	6476998.001	40	1608	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.80	2.25
403394.514	6477181.115	40	2827	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
403300.3511	6477362.035	40	2003	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
403182.1655	6477319.905	40	2015	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
402509.9234	6477082.967	40	2242	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.80	2.25
402650.8797	6477358.232	40	2978	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.80	2.25
402660.4694	6477394.906	40	2982	*corymbia calophylla*	0	1	<5	2	-	Low	4.80	2.25
402739.9645	6477575.136	40	102	*corymbia calophylla*	1	1	<5	2	-	Low	4.80	2.25
402744.9779	6477575.406	40	103	*corymbia calophylla*	0	1	<5	2	-	Low	4.80	2.25
402569.085	6477510.773	40	118	*corymbia calophylla*	2	2	>40	2	-	Moderate	4.80	2.25
402571.0218	6477516.112	40	119	*corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
402987.6265	6477536.46	40	28	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
402980.6227	6477536.505	40	29	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.80	2.25
402976.4109	6477451.326	40	40	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.80	2.25
402483.585	6477465.064	41	271	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.92	2.28
403226.0152	6477728.606	41	2257	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.92	2.28
403170.3669	6477658.131	41	2268	*Corymbia calophylla*	2	3	>40	2	-	Moderate	4.92	2.28
402704.9164	6477608.394	41	302	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.92	2.28

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402755.3369	6476780.766	41	3204	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.92	2.28
402706.6759	6477002.686	41	1607	*Corymbia calophylla*	3	1	>40	2	-	Moderate	4.92	2.28
403322.4175	6477330.205	41	2888	*Corymbia calophylla*	3	2	>40	2	-	Moderate	4.92	2.28
402769.5226	6477331.862	41	2923	*Corymbia calophylla*	2	2	>40	2	-	Moderate	4.92	2.28
402650.9135	6477294.711	41	2943	*Corymbia calophylla*	1	2	5-15	2	-	Low	4.92	2.28
402664.8429	6477212.919	41	2953	*Corymbia calophylla*	1	1	<5	2	-	Low	4.92	2.28
402554.682	6477263.091	41	2958	*corymbia calophylla*	3	3	>40	2	-	Moderate	4.92	2.28
403003.8318	6477494.043	41	42	*Corymbia calophylla*	3	3	>40	2	-	Moderate	4.92	2.28
402514.9733	6477288.877	42	237	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
402498.6084	6477387.828	42	242	*Corymbia calophylla*	2	3	>40	2	-	Moderate	5.04	2.30
402497.2836	6477377.839	42	244	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.04	2.30
402489.9813	6477379.432	42	257	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.04	2.30
402736.0847	6477625.096	42	2291	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
402703.3983	6477618.801	42	303	*Corymbia calophylla*	2	3	>40	2	-	Moderate	5.04	2.30
402644.1074	6477603.606	42	309	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.04	2.30
402609.9438	6477603.393	42	312	*Corymbia calophylla*	2	3	>40	2	-	Moderate	5.04	2.30
402783.9498	6476797.222	42	1940	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402716.7394	6476849.354	42	1663	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.04	2.30
403134.5504	6476869.376	42	3439	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402839.4713	6476780.232	42	3339	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.04	2.30
402887.6078	6476983.889	42	3359	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.04	2.30
402945.1641	6476981.994	42	3361	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
403360.5774	6477237.444	42	2834	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403333.2988	6477169.453	42	2851	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
403309.4417	6477331.302	42	2889	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403336.0495	6477370.02	42	2896	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403301.1105	6477391.974	42	2006	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403187.7234	6477222.181	42	2023	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
403043.6292	6477218.052	42	2058	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402682.9933	6477245.018	42	2935	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402548.0695	6477261.809	42	2957	*corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
402726.6813	6477428.679	42	2988	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402758.6019	6477445.831	42	2991	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402672.0159	6477424.836	42	2994	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402769.5372	6477450.369	42	2996	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402570.287	6477533.732	42	121	*corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
402557.6932	6477464.548	42	129	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.04	2.30
402993.3824	6477538.288	42	27	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403036.5577	6477496.126	42	51	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
403033.2722	6477503.301	42	53	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.04	2.30
402475.7244	6477435.723	43	210	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
402386.2726	6477517.241	43	220	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.16	2.32
402513.1606	6477440.07	43	264	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
402911.5636	6476822.263	43	3083	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
403351.631	6477202.55	43	2837	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.16	2.32
403344.5267	6477283.742	43	2874	*Corymbia calophylla*	3	1	>40	2	-	Moderate	5.16	2.32
403351.7921	6477296.116	43	2877	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.16	2.32
403329.0619	6477307.985	43	2884	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
403348.9898	6477332.45	43	2887	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
403130.997	6477427.066	43	2027	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.16	2.32
403038.574	6477242.282	43	2056	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.16	2.32
402582.0576	6477300.377	43	2964	*corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
402610.2987	6477336.23	43	2973	*corymbia calophylla*	1	2	5-15	2	-	Low	5.16	2.32
403010.2192	6477489.115	43	43	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
403027.9258	6477508.239	43	59	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.16	2.32
402548.0563	6477392.953	44	254	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.28	2.34
402761.4468	6476795.125	44	1935	*Corymbia calophylla*	2	1	5-15	2	-	Low	5.28	2.34
403387.861	6477224.397	44	2832	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403288.2189	6477142.756	44	2853	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403306.508	6477150.245	44	2854	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.28	2.34
403319.2903	6477340.707	44	2891	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403294.244	6477357.322	44	2001	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403168.0464	6477331.856	44	2012	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403111.4088	6477416.793	44	2033	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
403008.8481	6477293.439	44	2035	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
402560.2999	6477259.486	44	2955	*corymbia calophylla*	1	2	5-15	2	-	Low	5.28	2.34
402582.594	6477333.639	44	2968	*corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
402641.2104	6477349.937	44	2974	*corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
402743.6678	6477573.841	44	104	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.28	2.34
402976.0826	6477516.175	44	36	*Corymbia calophylla*	3	1	>40	2	-	Moderate	5.28	2.34

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402979.3794	6477457.673	44	41	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
402904.862	6477391.342	44	68	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.28	2.34
402476.4015	6477444.155	45	212	*Corymbia calophylla*	1	3	>40	2	-	Moderate	5.40	2.37
402385.9551	6477510.809	45	229	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.40	2.37
402576.457	6477382.026	45	240	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
403204.1029	6477723.854	45	2262	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.40	2.37
402894.4187	6477525.048	45	2276	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402914.0199	6477543.968	45	2280	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402591.4333	6477559.318	45	318	*Corymbia calophylla*	3	1	>40	2	-	Moderate	5.40	2.37
402601.1636	6477561.184	45	320	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402524.5478	6476868.152	45	1647	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.40	2.37
403217.6096	6476802.203	45	3121	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
403398.6432	6476973.407	45	2816	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
403336.5069	6477291.205	45	2876	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.40	2.37
403355.324	6477323.087	45	2886	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
403196.3551	6477230.134	45	2019	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402439.991	6477371.641	45	2695	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.40	2.37
402422.4495	6477385.11	45	2698	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402748.2277	6477562.023	45	2999	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.40	2.37
402994.1013	6477532.308	45	32	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.40	2.37
403041.295	6477525.659	45	61	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.40	2.37
402461.5292	6477315.973	46	202	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.52	2.39
402508.8507	6477375.62	46	248	*Corymbia calophylla*	3	1	>40	2	-	Moderate	5.52	2.39
402485.4998	6477462.755	46	270	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.52	2.39
402511.1891	6477508.228	46	281	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.52	2.39
403251.0797	6477760.436	46	2254	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.52	2.39
403212.9714	6477726.82	46	2261	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.52	2.39
402887.101	6476767.157	46	3097	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.52	2.39
402937.3223	6476970.612	46	3362	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.52	2.39
403368.5791	6477292.283	46	2879	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.52	2.39
403318.4495	6477359.656	46	2898	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.52	2.39
402728.6022	6477325.71	46	2933	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.52	2.39
402503.4808	6477432.883	47	263	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
402474.0567	6477471.847	47	272	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.64	2.41
403268.3515	6477705.17	47	3393	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403256.0025	6477699.954	47	3395	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.64	2.41
402916.2882	6476812.996	47	3084	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
402917.9823	6476793.944	47	3088	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.64	2.41
403349.1771	6477282.345	47	2873	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
403322.1957	6477343.728	47	2892	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.64	2.41
403003.2703	6477272.767	47	2039	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
403041.6717	6477244.971	47	2055	*Corymbia calophylla*	1	2	5-15	2	-	Low	5.64	2.41
402615.2978	6477278.077	47	2949	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
402421.0985	6477367.914	47	2689	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
402758.8129	6477563.564	47	2997	*corymbia calophylla*	1	1	<5	2	-	Low	5.64	2.41
402985.0705	6477516.481	47	35	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.64	2.41
402453.9157	6477310.469	48	201	*Corymbia calophylla*	1	1	<5	2	-	Low	5.76	2.43
402499.4391	6477350.145	48	206	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.76	2.43
403399.2681	6476977.404	48	2817	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.76	2.43
403170.823	6477328.445	48	2014	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.76	2.43
402984.0211	6477286.775	48	2043	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.76	2.43
402571.7323	6477291.411	48	2962	*corymbia calophylla*	0	2	<5	2	-	Low	5.76	2.43
402576.1137	6477288.459	48	2967	*corymbia calophylla*	0	1	<5	2	-	Low	5.76	2.43
402612.8453	6477337.141	48	2972	*corymbia calophylla*	1	2	5-15	2	-	Low	5.76	2.43
402589.1492	6477520.718	48	111	*corymbia calophylla*	2	2	>40	2	-	Moderate	5.76	2.43
402990.5483	6477507.664	48	37	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.76	2.43
402552.6508	6477307.637	49	236	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.88	2.45
403224.7501	6477712.187	49	2259	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.88	2.45
402599.4592	6477561.279	49	321	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.88	2.45
403507.0253	6476658.371	49	3138	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.88	2.45
403045.9738	6477009.662	49	2626	*Corymbia calophylla*	2	2	>40	2	-	Moderate	5.88	2.45
402492.392	6477085.461	49	2244	*Corymbia calophylla*	3	3	>40	2	-	Moderate	5.88	2.45
403032.4415	6477501.076	49	52	*Corymbia calophylla*	3	2	>40	2	-	Moderate	5.88	2.45
403412.8947	6476957.356	50	652	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.00	2.47
403402.9597	6476916.91	50	654	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.00	2.47
402858.7205	6476826.198	50	3421	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.00	2.47
403296.8918	6477166.45	50	2852	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.00	2.47
402591.3386	6477279.735	50	2969	*corymbia calophylla*	3	2	>40	2	-	Moderate	6.00	2.47
402584.7054	6477340.533	50	2970	*corymbia calophylla*	3	2	>40	2	-	Moderate	6.00	2.47
403010.3949	6477490.558	50	44	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.00	2.47

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402991.7873	6477516.766	50	65	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.00	2.47
402523.532	6477264.57	51	230	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.12	2.49
403437.5784	6476979.205	51	981	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.12	2.49
403472.7756	6476657.606	51	675	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.12	2.49
402501.4547	6477397.057	51	747	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.12	2.49
402495.1249	6477405.865	51	748	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.12	2.49
403125.8379	6476859.981	51	3437	*Corymbia calophylla*	2	2	>40	2	-	Moderate	6.12	2.49
403138.3912	6477154.648	51	2864	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.12	2.49
403173.1214	6477245.213	51	2017	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.12	2.49
402986.7631	6476956.224	51	3449	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.12	2.49
402665.5177	6477271.569	51	2938	*Corymbia calophylla*	2	2	>40	2	-	Moderate	6.12	2.49
402907.0511	6477390.032	51	67	*Corymbia calophylla*	2	2	>40	2	-	Moderate	6.12	2.49
402482.357	6477434.9	52	268	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.24	2.51
403170.6824	6477674.873	52	2269	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
403170.8661	6477685.517	52	2272	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
402925.0975	6477553.496	52	2282	*Corymbia calophylla*	2	1	5-15	2	-	Low	6.24	2.51
402867.3522	6476784.043	52	3101	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.24	2.51
403003.9363	6477282.418	52	956	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
403048.8003	6477221.648	52	633	*Corymbia calophylla*	1	2	5-15	2	-	Low	6.24	2.51
402910.6855	6477566.33	52	712	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
403219.8827	6477696.399	52	807	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.24	2.51
402837.4213	6476786.864	52	3338	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
402773.3223	6477320.369	52	2922	*Corymbia calophylla*	1	1	<5	2	-	Low	6.24	2.51
402602.9073	6477247.363	52	2950	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.24	2.51
402572.0081	6477521.886	52	120	*corymbia calophylla*	3	2	>40	2	-	Moderate	6.24	2.51
403006.6738	6477533.868	52	63	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.24	2.51
402940.9618	6476825.756	53	3081	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.36	2.53
403059.6357	6477347.13	53	638	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.36	2.53
403002.4708	6477527.953	53	704	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.36	2.53
403194.8171	6477674.768	53	809	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.36	2.53
402648.9738	6477309.658	53	739	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.36	2.53
402810.6342	6476877.514	54	797	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.48	2.55
402988.909	6477280.28	54	954	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.48	2.55
403131.2569	6477429.618	54	634	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.48	2.55
403018.8062	6477481.769	54	703	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.48	2.55

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403256.3593	6477732.439	54	801	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.48	2.55
402470.2484	6477444.318	54	750	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.48	2.55
402932.3103	6477000.274	54	3360	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.48	2.55
402432.1629	6477368.795	54	2692	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.48	2.55
402558.9862	6477408.023	55	262	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.60	2.57
403342.5698	6477320.75	55	969	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.60	2.57
403450.9508	6476925.787	55	982	*Corymbia calophylla*	1	3	>40	2	-	Moderate	6.60	2.57
402664.9112	6477425.544	55	733	*Corymbia calophylla*	3	1	>40	2	-	Moderate	6.60	2.57
403393.2636	6477153.056	55	2824	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.60	2.57
403125.7126	6477164.395	55	2871	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.60	2.57
403191.9245	6477248.383	55	2018	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.60	2.57
402533.2776	6477115.115	55	2233	*Corymbia calophylla*	2	2	>40	2	-	Moderate	6.60	2.57
402544.22	6477528.052	55	123	*corymbia calophylla*	1	1	<5	2	-	Low	6.60	2.57
402399.8924	6477508.17	56	227	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.72	2.59
403290.2465	6476937.357	56	3223	*Corymbia calophylla*	2	1	5-15	2	-	Low	6.72	2.59
402755.1254	6477563.196	56	2998	*corymbia calophylla*	2	2	>40	2	-	Moderate	6.72	2.59
402565.7378	6477444.559	57	260	*Corymbia calophylla*	3	1	>40	2	-	Moderate	6.84	2.61
402974.9255	6477458.296	57	708	*Corymbia calophylla*	3	1	>40	2	-	Moderate	6.84	2.61
402971.2547	6477456.155	57	709	*Corymbia calophylla*	3	1	>40	2	-	Moderate	6.84	2.61
403314.1828	6477360.502	57	2899	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.84	2.61
402758.0467	6477314.46	57	2924	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.84	2.61
402625.2416	6477307.327	57	2947	*Corymbia calophylla*	1	1	<5	2	-	Low	6.84	2.61
402589.0566	6477520.496	57	112	*corymbia calophylla*	2	2	>40	2	-	Moderate	6.84	2.61
402490.5752	6477466.461	58	277	*Corymbia calophylla*	1	2	5-15	2	-	Low	6.96	2.63
402885.5925	6477547.69	58	2277	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.96	2.63
403184.5609	6477306.736	58	640	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.96	2.63
403447.4503	6476683.974	58	661	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.96	2.63
402664.1951	6477351.263	58	741	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.96	2.63
402820.7769	6476795.686	58	3412	*Corymbia calophylla*	3	3	>40	2	-	Moderate	6.96	2.63
402981.4488	6477529.196	58	30	*Corymbia calophylla*	3	2	>40	2	-	Moderate	6.96	2.63
403009.4902	6477285.574	59	957	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.08	2.65
402844.3211	6477478.458	59	711	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.08	2.65
402665.6464	6477437.856	59	732	*Corymbia calophylla*	3	1	>40	2	-	Moderate	7.08	2.65
402671.2779	6477292.908	59	2940	*Corymbia calophylla*	2	1	5-15	2	-	Low	7.08	2.65
402647.6211	6477352.547	59	2976	*corymbia calophylla*	2	2	>40	2	-	Moderate	7.08	2.65

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402906.9214	6477544.012	60	2279	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.20	2.67
403509.4852	6476688.658	60	988	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.20	2.67
403200.8942	6477119.984	60	645	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.20	2.67
403004.8753	6477523.874	60	705	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.20	2.67
403015.7444	6477525.418	60	706	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.20	2.67
402890.8551	6477521.578	60	710	*Corymbia calophylla*	2	1	5-15	2	-	Low	7.20	2.67
402522.3302	6477101.93	60	696	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.20	2.67
402678.2915	6477391.749	60	734	*Corymbia calophylla*	0	3	5-15	2	-	Low	7.20	2.67
402491.1811	6477342.75	60	743	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.20	2.67
402539.1383	6477115.836	60	2231	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.20	2.67
402455.5539	6477307.381	61	203	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
402526.6339	6477416.474	61	256	*Corymbia calophylla*	2	3	>40	2	-	Moderate	7.32	2.69
403349.2123	6477288.664	61	974	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
403320.2426	6477189.174	61	977	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.32	2.69
403226.83	6476797.855	61	670	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.32	2.69
403045.1187	6476919.748	61	682	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
402753.8363	6476819.33	61	1913	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
403311.9446	6477336.869	61	2890	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
402546.5761	6477479.187	61	127	*corymbia calophylla*	3	2	>40	2	-	Moderate	7.32	2.69
402735.4566	6477611.455	62	2298	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.44	2.71
402594.268	6477559.789	62	319	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.44	2.71
402868.1511	6476779.616	62	3100	*Corymbia calophylla*	1	2	5-15	2	-	Low	7.44	2.71
403294.0547	6477357.32	62	961	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.44	2.71
403326.2963	6477330.352	62	968	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.44	2.71
403304.3719	6476622.987	62	674	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.44	2.71
402548.0607	6477462.35	62	128	*corymbia calophylla*	3	2	>40	2	-	Moderate	7.44	2.71
403295.9786	6477354.012	63	960	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.56	2.73
403393.7538	6477131.111	63	651	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.56	2.73
402674.8648	6477583.721	63	721	*Corymbia calophylla*	2	3	>40	2	-	Moderate	7.56	2.73
402774.4948	6477326.477	63	817	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.56	2.73
403280.4188	6476875.517	63	2737	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.56	2.73
403315.6012	6477360.627	64	966	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.68	2.74
403334.493	6477153.169	64	648	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.68	2.74
403030.7465	6477480.108	64	702	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.68	2.74
403177.5289	6477711.631	64	717	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.68	2.74

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403166.5507	6477651.332	64	811	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.68	2.74
402883.9701	6476988.289	64	666	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.68	2.74
402521.6373	6477115.116	64	698	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.68	2.74
403352.2857	6477314.079	65	970	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.80	2.76
403366.0646	6477298.023	65	972	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.80	2.76
403335.0841	6477301.612	65	975	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.80	2.76
402602.684	6477560.534	65	722	*Corymbia calophylla*	3	2	>40	2	-	Moderate	7.80	2.76
403204.4592	6477706.12	65	813	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.80	2.76
402674.3527	6477387.942	65	735	*Corymbia calophylla*	0	3	5-15	2	-	Low	7.80	2.76
402673.6723	6477379.843	65	736	*Corymbia calophylla*	0	3	5-15	2	-	Low	7.80	2.76
403411.056	6477142.914	66	979	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.92	2.78
403099.7761	6477425.995	66	637	*Corymbia calophylla*	2	2	>40	2	-	Moderate	7.92	2.78
402562.5563	6477271.037	66	738	*Corymbia calophylla*	3	3	>40	2	-	Moderate	7.92	2.78
403321.3562	6477352.477	67	965	*Corymbia calophylla*	2	2	>40	2	-	Moderate	8.04	2.80
402566.4498	6477469.287	67	729	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.04	2.80
402593.6849	6477481.518	67	730	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.04	2.80
402818.8849	6476775.603	67	3341	*Corymbia calophylla*	2	3	>40	2	-	Moderate	8.04	2.80
402857.0168	6476776.185	68	3106	*Corymbia calophylla*	2	2	>40	2	-	Moderate	8.16	2.81
403285.8171	6477166.679	68	647	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.16	2.81
402751.6374	6477281.696	68	815	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.16	2.81
402552.6166	6477440.998	68	746	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.16	2.81
402567.5906	6477259.112	68	2956	*corymbia calophylla*	2	2	>40	2	-	Moderate	8.16	2.81
403107.586	6477420.748	69	636	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.28	2.83
403035.8979	6477485.81	69	701	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.28	2.83
402719.099	6477619.836	69	720	*Corymbia calophylla*	3	1	>40	2	-	Moderate	8.28	2.83
403267.5168	6477693.3	69	806	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.28	2.83
403184.6502	6477257.073	70	643	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.40	2.85
403182.0801	6477700.699	70	716	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.40	2.85
402755.3506	6477569.407	70	718	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.40	2.85
402425.6512	6477376.826	70	751	*Corymbia calophylla*	2	1	5-15	2	-	Low	8.40	2.85
402977.9288	6477280.509	72	955	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.64	2.88
403372.9973	6477305.516	72	973	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.64	2.88
402664.3188	6477398.157	72	2983	*corymbia calophylla*	2	2	>40	2	-	Moderate	8.64	2.88
402572.6574	6477443.405	73	745	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.76	2.90
403337.6316	6477312.5	73	2885	*Corymbia calophylla*	3	2	>40	2	-	Moderate	8.76	2.90

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403126.885	6477431.572	74	635	*Corymbia calophylla*	3	3	>40	2	-	Moderate	8.88	2.92
402484.2676	6477413.079	75	749	*Corymbia calophylla*	3	2	>40	2	-	Moderate	9.00	2.93
403001.0032	6477512.973	75	66	*Corymbia calophylla*	3	2	>40	2	-	Moderate	9.00	2.93
403336.6892	6477362.377	76	964	*Corymbia calophylla*	3	2	>40	2	-	Moderate	9.12	2.95
402733.334	6477285.736	77	816	*Corymbia calophylla*	2	2	>40	2	-	Moderate	9.24	2.97
402675.3235	6477205.48	78	818	*Corymbia calophylla*	1	1	<5	2	-	Low	9.36	2.98
403165.4379	6477679.036	79	812	*Corymbia calophylla*	3	3	>40	2	-	Moderate	9.48	3.00
402483.7074	6477332.48	79	742	*Corymbia calophylla*	3	1	>40	2	-	Moderate	9.48	3.00
402829.2944	6476875.695	83	821	*Corymbia calophylla*	3	3	>40	2	-	Moderate	9.96	3.06
402749.4338	6477564.584	83	719	*Corymbia calophylla*	3	2	>40	2	-	Moderate	9.96	3.06
402590.2415	6477365.528	84	249	*Corymbia calophylla*	2	2	>40	2	-	Moderate	10.08	3.08
402906.9042	6476804.593	84	3086	*Corymbia calophylla*	2	3	>40	2	-	Moderate	10.08	3.08
402521.3032	6477509.544	85	724	*Corymbia calophylla*	3	3	>40	2	-	Moderate	10.20	3.09
403336.1186	6477181.563	87	976	*Corymbia calophylla*	3	3	>40	2	-	Moderate	10.44	3.12
403267.6879	6477101.989	87	646	*Corymbia calophylla*	3	2	>40	2	-	Moderate	10.44	3.12
403190.7683	6477712.754	88	2264	*Corymbia calophylla*	3	3	>40	2	-	Moderate	10.56	3.14
403313.6649	6477325.023	88	967	*Corymbia calophylla*	3	3	>40	2	-	Moderate	10.56	3.14
403191.5101	6477674.182	88	810	*Corymbia calophylla*	2	1	5-15	2	-	Low	10.56	3.14
402526.8116	6477377.786	88	744	*Corymbia calophylla*	3	1	>40	2	-	Moderate	10.56	3.14
403405.4554	6477134.658	92	980	*Corymbia calophylla*	3	3	>40	2	-	Moderate	11.04	3.20
402667.132	6477430.886	92	2995	*corymbia calophylla*	2	2	>40	2	-	Moderate	11.04	3.20
402987.9547	6476940.272	94	668	*Corymbia calophylla*	3	3	>40	2	-	Moderate	11.28	3.22
403210.7743	6477688.775	98	808	*Corymbia calophylla*	3	2	>40	2	-	Moderate	11.76	3.28
403395.1964	6476907.193	102	653	*Corymbia calophylla*	3	2	>40	2	-	Moderate	12.24	3.34
403306.5879	6477383.157	114	962	*Corymbia calophylla*	3	2	>40	2	-	Moderate	13.68	3.50
402923.7734	6476822.046	120	3082	*Corymbia calophylla*	3	2	>40	2	-	Moderate	14.40	3.57
402850.0835	6476898.95	140	824	*Corymbia calophylla*	3	3	>40	2	-	Moderate	16.80	3.81
403253.2982	6476871.109	30	0	*Eucalyptus botryoides*	3	2	>40	2	-	Moderate	3.60	2.00
403244.4434	6476871.373	30	0	*Eucalyptus botryoides*	3	2	>40	2	-	Moderate	3.60	2.00
403212.8939	6476875.938	30	0	*Eucalyptus botryoides*	3	2	>40	2	-	Moderate	3.60	2.00
403263.6097	6476830.695	30	0	*Eucalyptus camaldulensis*	3	2	>40	2	-	Moderate	3.60	2.00
402941.8428	6477243.475	42	2625	*Eucalyptus camaldulensis*	3	3	>40	2	-	Moderate	5.04	2.30
403191.3782	6476872.957	50	0	*Eucalyptus gomphocephala*	3	2	>40	2	-	Moderate	6.00	2.47
403179.7994	6476872.721	50	0	*Eucalyptus gomphocephala*	3	2	>40	2	-	Moderate	6.00	2.47
403265.0529	6476815.584	50	0	*Eucalyptus gomphocephala*	3	3	>40	2	-	Moderate	6.00	2.47

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403161.8977	6476598.476	30	1828	*Eucalyptus marginata*	2	3	>40	2	-	Moderate	3.60	2.00
403081.6408	6476890.383	30	3381	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.60	2.00
403067.219	6476934.479	30	2607	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	3.60	2.00
402690.9851	6476830.819	31	1653	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.72	2.02
402722.3515	6476896.3	31	1669	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.72	2.02
403087.8825	6476880.797	31	3380	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.72	2.02
403323.1799	6476705.975	31	2723	*Eucalyptus marginata*	0	2	<5	2	-	Low	3.72	2.02
403043.7233	6476937.251	31	3482	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.72	2.02
402436.1272	6477479.58	32	216	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.84	2.05
403018.373	6476715.407	32	547	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	3.84	2.05
403132.3028	6476656.065	32	1870	*Eucalyptus marginata*	2	1	5-15	2	-	Low	3.84	2.05
403155.1915	6476818.022	33	3434	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.96	2.08
402749.7896	6476776.944	33	3202	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	3.96	2.08
402905.8909	6476781.636	33	3092	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.96	2.08
403058.1149	6476645.61	33	587	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.96	2.08
403039.3769	6476615.612	33	567	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.96	2.08
403123.408	6476635.916	33	1865	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.96	2.08
402705.2455	6476853.901	33	1660	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	3.96	2.08
403322.5642	6476821.704	33	3186	*Eucalyptus marginata*	1	1	<5	2	-	Low	3.96	2.08
403093.6459	6476911.892	33	3496	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	3.96	2.08
403033.3259	6476935.933	33	2613	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	3.96	2.08
403011.4985	6476611.58	34	3030	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.08	2.10
402694.5048	6476808.902	34	1698	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.08	2.10
402820.7176	6476892.021	35	795	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	4.20	2.13
403024.3657	6476712.138	35	546	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.20	2.13
403016.8011	6476691.447	35	541	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.20	2.13
402714.8477	6476839.248	35	1656	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.20	2.13
403323.6979	6476701.213	35	2719	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.20	2.13
403331.0027	6476699.286	36	2718	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.32	2.15
403284.8296	6476849.285	36	2739	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.32	2.15
403308.3743	6476831.215	36	2809	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.32	2.15
403071.4871	6476923.434	36	2605	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	4.32	2.15
403062.8614	6476593.884	37	592	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.44	2.18
403044.7355	6476589.279	37	565	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.44	2.18
402698.2721	6476820.8	37	1652	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.44	2.18

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403313.8769	6476910.197	37	2744	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.44	2.18
403024.2561	6476593.409	38	3026	*Eucalyptus marginata*	1	2	5-15	2	-	Low	4.56	2.20
402971.5307	6476665.19	38	3061	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.56	2.20
403002.8557	6476695.085	38	551	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.56	2.20
402704.8081	6476850.128	38	1659	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	4.56	2.20
402969.2831	6476772.922	39	3079	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.68	2.23
403051.2209	6476664.169	39	576	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.68	2.23
403162.8651	6476636.399	39	1834	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.68	2.23
403375.108	6476839.492	39	2798	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.68	2.23
403037.0377	6476943.728	39	3483	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.68	2.23
402776.4518	6476909.561	40	1682	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	4.80	2.25
403061.5868	6476608.616	41	589	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.92	2.28
403031.1109	6476679.277	41	554	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.92	2.28
402721.6682	6476898.511	41	1668	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	4.92	2.28
403121.1506	6476875.346	41	3441	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	4.92	2.28
402750.8704	6476772.742	42	3203	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	5.04	2.30
403288.6029	6476890.781	42	2743	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.04	2.30
403449.8419	6476953.158	42	2753	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.04	2.30
403382.8877	6476857.524	42	2794	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.04	2.30
402787.0413	6476900.571	43	1684	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.16	2.32
403230.6726	6476620.963	43	1808	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	5.16	2.32
402849.5564	6476714.478	43	3302	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.16	2.32
403340.5168	6476714.009	43	2720	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.16	2.32
403060.9218	6476949.94	43	3489	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.16	2.32
403009.3298	6476710.999	44	548	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.28	2.34
403327.4676	6476763.217	44	3172	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	5.28	2.34
402677.3851	6476817.941	45	1650	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.40	2.37
403124.924	6476946.885	45	2506	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.40	2.37
403003.7724	6476597.982	46	3016	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.52	2.39
403021.238	6476692.598	46	542	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.52	2.39
403151.5273	6476604.365	46	1840	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.52	2.39
402704.9132	6476849.021	46	1658	*Eucalyptus marginata*	2	3	>40	2	-	Moderate	5.52	2.39
402723.6585	6476898.197	47	1670	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.64	2.41
402972.0993	6476635.042	48	3047	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	5.76	2.43
403268.3162	6476773.857	48	3125	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.76	2.43

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403298.9668	6476865.492	48	2742	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.76	2.43
403150.866	6476604.248	49	1839	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	5.88	2.45
403050.6933	6476940.753	49	2617	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	5.88	2.45
403261.8898	6476851.613	50	0	*Eucalyptus marginata*	1	2	5-15	2	-	Low	6.00	2.47
403155.4758	6476837.76	50	0	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.00	2.47
403085.7059	6476660.06	50	1882	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.00	2.47
403070.0569	6476633.639	50	1876	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.00	2.47
403003.9858	6476715.715	50	549	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.00	2.47
402714.9339	6476900.11	50	1671	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.00	2.47
403357.914	6476846.425	52	664	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.24	2.51
402698.7718	6476837.987	52	1654	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.24	2.51
403161.4488	6476615.987	53	1829	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.36	2.53
402958.0158	6476653.312	54	3054	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.48	2.55
403237.91	6476756.832	54	671	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.48	2.55
403133.2557	6476625.255	54	1861	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	6.48	2.55
403124.7129	6476638.034	54	1864	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.48	2.55
402978.6105	6476636.988	55	3043	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.60	2.57
403045.0147	6476579.748	56	596	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.72	2.59
402994.4504	6476633.147	57	3038	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.84	2.61
402916.4254	6476798.475	57	3087	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	6.84	2.61
402985.5417	6476674.634	59	3058	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	7.08	2.65
403046.6201	6476620.226	59	568	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	7.08	2.65
403239.7142	6476896.861	60	680	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	7.20	2.67
403091.4759	6476660.336	61	1883	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	7.32	2.69
402710.9596	6476900.072	61	1672	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	7.32	2.69
403397.3407	6476850.232	63	657	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	7.56	2.73
402953.2597	6476635.862	64	3006	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	7.68	2.74
403003.5185	6476935.652	68	669	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	8.16	2.81
403290.5119	6476728.171	68	673	*Eucalyptus marginata*	1	2	5-15	2	-	Low	8.16	2.81
402882.6713	6476855.358	69	827	*Eucalyptus marginata*	3	1	>40	2	-	Moderate	8.28	2.83
403268.3256	6476772.86	69	672	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	8.28	2.83
403100.1191	6476636.916	70	1875	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	8.40	2.85
402973.0045	6476659.439	71	3059	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	8.52	2.87
403451.8369	6476912.049	71	2754	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	8.52	2.87
403388.6549	6476848.044	73	658	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	8.76	2.90

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403102.0413	6476623.742	73	1874	*Eucalyptus marginata*	2	3	>40	2	-	Moderate	8.76	2.90
403041.4971	6476671.726	76	574	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	9.12	2.95
403276.3894	6476810.96	78	676	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	9.36	2.98
403032.1584	6476969.401	87	3478	*Eucalyptus marginata*	2	2	>40	2	-	Moderate	10.44	3.12
403125.3015	6477710.031	89	715	*Eucalyptus marginata*	2	1	5-15	2	-	Low	10.68	3.15
402898.1477	6476789.877	96	3093	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	11.52	3.25
403404.2056	6476854.842	97	656	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	11.64	3.27
402784.4002	6476899.659	99	1683	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	11.88	3.30
403337.8555	6476846.015	100	989	*Eucalyptus marginata*	2	1	5-15	2	-	Low	12.00	3.31
403423.7989	6476824.208	106	659	*Eucalyptus marginata*	1	2	5-15	2	-	Low	12.72	3.39
403420.9518	6476825.068	107	983	*Eucalyptus marginata*	0	1	<5	2	-	Low	12.84	3.40
403406.5782	6476874.264	110	655	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	13.20	3.44
403347.1223	6476856.855	110	663	*Eucalyptus marginata*	3	2	>40	2	-	Moderate	13.20	3.44
403311.6302	6476897.538	114	991	*Eucalyptus marginata*	3	3	>40	2	-	Moderate	13.68	3.50
402866.0706	6477139.883	30	2072	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402867.3224	6477157.632	30	2073	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402238.3064	6477292.9	30	2082	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402254.6706	6477273.878	30	2089	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402332.9502	6477292.359	30	2095	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.60	2.00
402345.289	6477288.596	30	2135	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402308.8258	6477191.914	30	2152	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402448.0622	6477179.38	30	2192	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.60	2.00
402340.7684	6477375.909	30	2640	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402398.1387	6477304.175	30	2654	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.60	2.00
402337.2657	6477395.941	30	2684	*Eucalyptus rudis*	1	2	5-15	2	-	Low	3.60	2.00
402464.9035	6476920.576	30	2210	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.60	2.00
402416.502	6477114.45	30	19	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.60	2.00
402531.1339	6477211.43	30	405	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.60	2.00
402521.7361	6477234.399	30	411	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.60	2.00
402461.174	6477114.098	31	3386	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.72	2.02
402452.1645	6477086.188	31	3388	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.72	2.02
402873.6686	6477026.88	31	2516	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402948.994	6477047.436	31	2523	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.72	2.02
402954.2041	6477056.908	31	2524	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.72	2.02
402927.6657	6477121.287	31	2538	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.72	2.02

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402833.2424	6477088.689	31	2903	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.72	2.02
402923.5096	6477180.556	31	2061	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402302.5276	6477247.173	31	2117	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402285.731	6477192.249	31	2125	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402352.5523	6477161.622	31	2159	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402384.203	6477127.336	31	2198	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402665.2596	6477158.935	31	2916	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402348.6199	6477356.362	31	2641	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402386.2827	6477376.674	31	2667	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402388.0428	6477380.682	31	2669	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402377.5649	6477387.788	31	2679	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402336.7316	6477392.389	31	2685	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.72	2.02
402919.6856	6477154.58	31	2560	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.72	2.02
402894.6244	6477172.745	31	2565	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.72	2.02
402537.4213	6477077.352	31	2221	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.72	2.02
402539.4358	6477084.466	31	2222	*Eucalyptus rudis*	1	1	<5	2	-	Low	3.72	2.02
402635.9753	6477173.291	31	75	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402580.5954	6477195.049	31	94	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.72	2.02
402486.7547	6477260.673	31	415	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.72	2.02
402397.7669	6477094.207	32	3392	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.84	2.05
402850.0466	6477032.976	32	2517	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	3.84	2.05
402835.2548	6477086.048	32	2902	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402913.1308	6477177.243	32	2070	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402233.3609	6477275.56	32	2084	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402299.8891	6477265.882	32	2101	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402344.9912	6477120.755	32	2168	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402348.7089	6477127.885	32	2170	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402451.4067	6477195.929	32	2181	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.84	2.05
402454.3023	6477199.948	32	2183	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402654.2266	6477134.775	32	2910	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402383.1901	6477313.678	32	2645	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402426.2261	6477286.372	32	2664	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402379.9276	6477388.143	32	2674	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402370.7264	6477380.406	32	2678	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402340.6829	6477394.865	32	2682	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402353.4697	6477393.767	32	2683	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402607.8582	6477074.472	32	2572	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	3.84	2.05
402603.4527	6477079.973	32	2575	*Eucalyptus rudis*	1	2	5-15	2	-	Low	3.84	2.05
402581.3843	6477061.916	32	2580	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.84	2.05
402562.8511	6477100.208	32	2228	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.84	2.05
402503.1544	6477058.292	32	2246	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402484.3892	6477170.856	32	3	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.84	2.05
402629.4784	6477159.816	32	74	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.84	2.05
402404.344	6477537.7	32	131	*Eucalyptus rudis*	1	1	<5	2	-	Low	3.84	2.05
402398.1877	6477428.558	33	214	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.96	2.08
402940.3716	6477028.508	33	2519	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402926.6619	6477237.567	33	2635	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	3.96	2.08
402888.6198	6477177.234	33	2066	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402289.4105	6477263.122	33	2105	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402308.6077	6477214.86	33	2126	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.96	2.08
402338.3438	6477133.108	33	2164	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402342.1544	6477120.506	33	2166	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402402.7583	6477156.557	33	2175	*Eucalyptus rudis*	1	2	5-15	2	-	Low	3.96	2.08
402683.2503	6477137.932	33	2908	*Eucalyptus rudis*	2	1	5-15	2	-	Low	3.96	2.08
402660.3766	6477144.921	33	2912	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402667.1414	6477140.107	33	2913	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402332.2782	6477363.08	33	2642	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402352.3421	6477353.072	33	2644	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402367.4415	6477387.47	33	2680	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.96	2.08
402357.6619	6477390.814	33	2681	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402334.1009	6477390.368	33	2686	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402328.6941	6477401.624	33	2687	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402465.8876	6476926.572	33	2208	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	3.96	2.08
402514.6033	6477048.534	33	2215	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.96	2.08
402526.9806	6477080.579	33	2220	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	3.96	2.08
402553.8256	6477093.914	33	2226	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	3.96	2.08
402416.4862	6477116.113	33	18	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402582.1432	6477201.493	33	93	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	3.96	2.08
402520.2704	6477229.286	33	410	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	3.96	2.08
402367.8266	6477087.936	34	3391	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10

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402638.3414	6477013.457	34	1622	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.08	2.10
402913.2288	6477156.847	34	2540	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.08	2.10
402900.3209	6477170.804	34	2068	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402230.0726	6477292.933	34	2083	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402284.0177	6477262.96	34	2107	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402279.6978	6477239.528	34	2113	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402319.9126	6477220.289	34	2129	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402361.7125	6477153.728	34	2161	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.08	2.10
402341.8595	6477151.544	34	2163	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.08	2.10
402342.3793	6477126.716	34	2169	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402354.3508	6477131.708	34	2171	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.08	2.10
402398.0576	6477133.343	34	2195	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402371.4524	6477343.83	34	2653	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402388.6335	6477308.519	34	2655	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402426.4678	6477300.786	34	2663	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.08	2.10
402384.0163	6477336.3	34	2671	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.08	2.10
402381.9474	6477384.726	34	2668	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402328.5354	6477398.408	34	2676	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402581.0869	6477083.309	34	2579	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.08	2.10
402484.7265	6476965.773	34	2595	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402466.1809	6476935.554	34	2207	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.08	2.10
402464.0266	6476923.229	34	2209	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.08	2.10
402541.5323	6477082.934	34	2223	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.08	2.10
402477.1953	6477171.01	34	11	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.08	2.10
402637.1013	6477164.322	34	73	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.08	2.10
402562.5539	6477191.441	34	98	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.08	2.10
402883.351	6477083.842	35	2527	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.20	2.13
402937.1497	6477229.352	35	2637	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.20	2.13
402895.0702	6477145.589	35	2071	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402260.1944	6477250.317	35	2109	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402289.0717	6477229.086	35	2112	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402307.4466	6477227.487	35	2121	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.20	2.13
402384.2867	6477238.083	35	2142	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402292.1039	6477188.873	35	2156	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402330.6954	6477151.216	35	2157	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402357.0053	6477151.133	35	2160	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402352.8975	6477145.219	35	2162	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402433.2768	6477191.656	35	2178	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402332.7567	6477352.553	35	2643	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.20	2.13
402419.9521	6477289.305	35	2666	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.20	2.13
402934.895	6477167.472	35	2556	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.20	2.13
402927.4277	6477166.514	35	2557	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402924.3776	6477168.814	35	2558	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402616.484	6477073.002	35	2569	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.20	2.13
402464.0802	6476937.53	35	2206	*Eucalyptus rudis*	2	1	5-15	2	-	Low	4.20	2.13
402481.9184	6477161.964	35	6	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402648.0065	6477142.032	35	69	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.20	2.13
402540.9732	6477201.768	35	100	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.20	2.13
402922.2651	6477192.074	36	2059	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402925.3749	6477183.456	36	2060	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402906.8737	6477178.404	36	2063	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.32	2.15
402898.581	6477174.667	36	2069	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402263.846	6477254.454	36	2108	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.32	2.15
402378.8044	6477247.343	36	2141	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.32	2.15
402362.9757	6477130.349	36	2172	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402429.7998	6477179.096	36	2177	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402466.0196	6477191.856	36	2190	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402658.6175	6477140.803	36	2911	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.32	2.15
402480.2411	6476989.675	36	2589	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.32	2.15
402418.9288	6477098.066	36	16	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.32	2.15
402422.3732	6477114.063	36	17	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.32	2.15
402525.617	6477214.371	36	406	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.32	2.15
402352.8377	6477400.523	37	226	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.44	2.18
402884.1069	6477053.917	37	2518	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402936.8534	6477130.464	37	2534	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.44	2.18
402930.6081	6477240.597	37	2636	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402886.0617	6477177.542	37	2065	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402917.6491	6477049.578	37	2076	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.44	2.18
402291.9294	6477326.668	37	2077	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402287.3712	6477288.489	37	2091	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402294.1091	6477276.581	37	2097	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402301.5482	6477270.554	37	2098	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402264.613	6477233.509	37	2110	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402276.4646	6477241.16	37	2114	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402299.4175	6477245.813	37	2118	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402294.4913	6477206.522	37	2124	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402297.9907	6477196.8	37	2154	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402437.4542	6477190.254	37	2179	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.44	2.18
402380.2994	6477339.037	37	2670	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402900.4306	6477179.23	37	2553	*Eucalyptus rudis*	2	1	5-15	2	-	Low	4.44	2.18
402509.8341	6477052.48	37	2216	*Eucalyptus rudis*	1	1	<5	2	-	Low	4.44	2.18
402508.6186	6477060.893	37	2217	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402597.1607	6477184.674	37	82	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.44	2.18
402586.1565	6477197.429	37	88	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402533.1358	6477209.897	37	404	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.44	2.18
402883.8175	6477074.534	38	2528	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.56	2.20
402909.4082	6477080.43	38	2531	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.56	2.20
402795.6276	6477083.345	38	2901	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.56	2.20
402994.9136	6477185.554	38	2046	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.56	2.20
402295.7802	6477260.079	38	2103	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.56	2.20
402291.4283	6477259.927	38	2104	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402286.5563	6477244.804	38	2115	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402304.0649	6477244.748	38	2119	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402395.778	6477144.185	38	2197	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.56	2.20
402353.1998	6477113.406	38	2199	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402892.8166	6477163.749	38	2564	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.56	2.20
402872.3007	6477151.582	38	2566	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.56	2.20
402609.9347	6477075.046	38	2573	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.56	2.20
402598.3007	6477074.382	38	2574	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.56	2.20
402556.1796	6477055.247	38	2584	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402423.5754	6477067.181	38	2248	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.56	2.20
402551.2319	6477157.855	38	1	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402420.876	6477102.297	38	15	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.56	2.20
402639.101	6477153.034	38	70	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402573.5477	6477199.749	38	96	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402522.0726	6477228.86	38	409	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.56	2.20
402703.6177	6477025.826	39	1605	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.68	2.23
402927.7124	6477026.172	39	2522	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.68	2.23
402938.2478	6477083.03	39	2525	*Eucalyptus rudis*	2	1	5-15	2	-	Low	4.68	2.23
402894.6071	6477074.414	39	2530	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.68	2.23
402319.1702	6477228.707	39	2130	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402379.2708	6477277.944	39	2138	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.68	2.23
402407.9146	6477151.728	39	2176	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402446.7856	6477194.223	39	2180	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402484.388	6477220.853	39	2186	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402492.788	6477193.329	39	2189	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.68	2.23
402400.4969	6477135.583	39	2196	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.68	2.23
402406.9539	6477123.339	39	2200	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.68	2.23
402773.9887	6477269.935	39	2919	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402340.4385	6477360.829	39	2633	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.68	2.23
402825.9258	6477131.855	39	2542	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402477.3382	6476986.433	39	2590	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.68	2.23
402592.9592	6477178.648	39	80	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.68	2.23
402596.1903	6477187.215	39	83	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402499.9819	6477223.107	39	413	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.68	2.23
402925.7008	6477128.918	40	2536	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402919.7847	6477134.072	40	2537	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.80	2.25
402922.478	6477149.507	40	2539	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
403138.9933	6477201.214	40	2024	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.80	2.25
403136.3439	6477221.254	40	2025	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.80	2.25
402884.63	6477188.836	40	2064	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402329.0718	6477272.257	40	2134	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402410.1544	6477125.143	40	2194	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.80	2.25
402839.6367	6477143.07	40	2544	*Eucalyptus rudis*	1	1	<5	2	-	Low	4.80	2.25
402606.7016	6477076.678	40	2571	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402491.3487	6477155.513	40	7	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.80	2.25
402558.8276	6477205.152	40	402	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.80	2.25
402522.2818	6477236.732	40	412	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402458.5918	6477266.503	40	414	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.80	2.25
402938.1284	6477225.924	41	2628	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.92	2.28

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402919.0087	6477216.21	41	2630	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.92	2.28
402262.5976	6477266.304	41	2088	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.92	2.28
402359.5123	6477265.784	41	2139	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.92	2.28
402333.951	6477127.302	41	2165	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.92	2.28
402342.0252	6477114.186	41	2167	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.92	2.28
402466.481	6477223.011	41	2185	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.92	2.28
402369.499	6477330.287	41	2657	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.92	2.28
402386.7892	6477313.379	41	2656	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.92	2.28
402823.4994	6477108.219	41	2541	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	4.92	2.28
402928.969	6477163.647	41	2559	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	4.92	2.28
402907.5783	6477153.911	41	2561	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	4.92	2.28
402470.1774	6476923.287	41	2211	*Eucalyptus rudis*	2	1	5-15	2	-	Low	4.92	2.28
402416.6501	6477128.752	41	20	*Eucalyptus rudis*	1	2	5-15	2	-	Low	4.92	2.28
402589.1182	6477164.533	41	79	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	4.92	2.28
402588.9438	6477192.911	41	87	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.92	2.28
402192.4251	6477340.687	41	418	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	4.92	2.28
402921.7163	6477220.116	42	2632	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.04	2.30
402889.2609	6477169.48	42	2067	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.04	2.30
402268.8443	6477306.05	42	2079	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402314.9047	6477219.465	42	2127	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	5.04	2.30
402454.6756	6477200.506	42	2182	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402454.112	6477200.057	42	2184	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.04	2.30
402681.2241	6477132.037	42	2907	*Eucalyptus rudis*	1	1	<5	2	-	Low	5.04	2.30
402917.5511	6477180.168	42	2552	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.04	2.30
402898.0575	6477149.941	42	2563	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.04	2.30
402601.8532	6477039.052	42	2581	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.04	2.30
402463.553	6476993.064	42	2212	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402454.698	6476998.745	42	2214	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	5.04	2.30
402591.2438	6477110.011	42	2230	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402465.3689	6477150.721	42	12	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402634.6282	6477155.652	42	71	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.04	2.30
402597.0787	6477183.343	42	81	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.04	2.30
402583.9716	6477188.318	42	85	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.04	2.30
402940.1879	6477218.295	43	2634	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	5.16	2.32
402910.2989	6477166.464	43	2062	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.16	2.32

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402271.6539	6477299.204	43	2080	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.16	2.32
402247.4972	6477291.768	43	2081	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.16	2.32
402300.0552	6477268.323	43	2099	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.16	2.32
402361.5526	6477230.329	43	2148	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.16	2.32
402338.0429	6477204.608	43	2150	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.16	2.32
402445.1854	6477183.343	43	2193	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.16	2.32
402372.4448	6477358.916	43	2651	*Eucalyptus rudis*	2	1	5-15	2	-	Low	5.16	2.32
402581.4233	6477077.769	43	2578	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.16	2.32
402482.609	6476969.522	43	2594	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.16	2.32
403090.8115	6477222.487	44	2026	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.28	2.34
402293.3049	6477271.584	44	2100	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.28	2.34
402355.2467	6477256.542	44	2140	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.28	2.34
402493.4347	6477194.998	44	2188	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.28	2.34
402556.4183	6477040.062	44	2585	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.28	2.34
402481.3724	6476990.13	44	2588	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.28	2.34
402507.9331	6477063.326	44	2218	*Eucalyptus rudis*	2	1	5-15	2	-	Low	5.28	2.34
402548.6442	6477091.426	44	2225	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.28	2.34
402559.3824	6477086.761	44	2227	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.28	2.34
402475.9641	6477171.109	44	10	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.28	2.34
402591.7185	6477189.722	44	84	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.28	2.34
402584.2524	6477198.631	44	89	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	5.28	2.34
402363.1451	6477401.397	45	223	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.40	2.37
402903.5717	6477107.202	45	2526	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.40	2.37
402854.7174	6477079.469	45	2529	*Eucalyptus rudis*	2	1	5-15	2	-	Low	5.40	2.37
403010.4858	6477240.243	45	2052	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402320.9131	6477304.217	45	2093	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402299.5551	6477251.246	45	2116	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.40	2.37
402295.6559	6477223.384	45	2122	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402670.2085	6477146.012	45	2914	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.40	2.37
402381.6356	6477347.807	45	2673	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	5.40	2.37
402378.1538	6477385.576	45	2675	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402846.3983	6477138.589	45	2543	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402860.5193	6477146.482	45	2545	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402937.6694	6477184.348	45	2555	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402473.6636	6476964.781	45	2201	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.40	2.37

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402491.756	6477052.752	45	2245	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.40	2.37
402485.5217	6477161.222	45	5	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.40	2.37
402473.7173	6477158.56	45	9	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.40	2.37
402524.8873	6477221.459	45	407	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.40	2.37
402648.1007	6477022.196	46	1623	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	5.52	2.39
402833.1722	6477096.116	46	2904	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.52	2.39
402911.4546	6477254.495	46	2624	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.52	2.39
402934.2803	6477072.24	46	2075	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.52	2.39
402361.275	6477229.661	46	2149	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.52	2.39
402370.9844	6477134.083	46	2173	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.52	2.39
402667.2095	6477122.925	46	2905	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.52	2.39
402683.5314	6477158.221	46	2915	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.52	2.39
402327.1993	6477379.66	46	2629	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.52	2.39
402900.5811	6477153.291	46	2562	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.52	2.39
402478.5305	6476970.481	46	2593	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	5.52	2.39
402495.3247	6476975.85	46	2597	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.52	2.39
402618.6802	6477160.822	46	78	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.52	2.39
402545.1663	6477188.726	46	99	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.52	2.39
403320.5633	6477497.139	47	2009	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.64	2.41
402290.0917	6477271.11	47	2106	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.64	2.41
402279.5584	6477224.339	47	2111	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.64	2.41
402392.9832	6477239.163	47	2143	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.64	2.41
402370.7865	6477364.111	47	2650	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.64	2.41
402591.2107	6477193.376	47	86	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.64	2.41
402447.8895	6477077.944	48	3389	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402981.0888	6477196.398	48	2045	*Eucalyptus rudis*	2	1	5-15	2	-	Low	5.76	2.43
402294.8654	6477216.946	48	2123	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402315.7414	6477231.002	48	2131	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.76	2.43
402296.0614	6477190.685	48	2155	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402463.3605	6477192.828	48	2191	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.76	2.43
402365.5157	6477361.068	48	2649	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402391.8306	6477340.587	48	2672	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.76	2.43
402381.8098	6477379.292	48	2667	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402597.9127	6477065.399	48	2577	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.76	2.43
402492.8449	6477147.434	48	8	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402454.1776	6477133.321	48	13	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.76	2.43
402580.2832	6477198.039	48	92	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.76	2.43
402675.6901	6477036.869	49	1602	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402284.9818	6477310.86	49	2078	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.88	2.45
402253.5216	6477265.331	49	2086	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402317.3239	6477223.811	49	2128	*Eucalyptus rudis*	1	2	5-15	2	-	Low	5.88	2.45
402335.9644	6477254.031	49	2133	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402349.7145	6477161.485	49	2158	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.88	2.45
402345.4685	6477369.302	49	2638	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402370.0319	6477343.928	49	2648	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402403.3883	6477329.39	49	2661	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402857.083	6477139.577	49	2546	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402886.8756	6477181.541	49	2551	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402905.7351	6477178.726	49	2554	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	5.88	2.45
402862.7279	6477103.047	49	2567	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402488.192	6476969.575	49	2596	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	5.88	2.45
402382.0518	6477054.925	49	2247	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.88	2.45
402423.7054	6477290.296	49	2665	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
403027.9005	6477631.29	49	26	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402622.0353	6477156.309	49	77	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	5.88	2.45
402567.3232	6477207.45	49	97	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402222.7324	6477368.135	49	417	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	5.88	2.45
402993.4838	6477256.822	50	631	*Eucalyptus rudis*	2	1	5-15	2	-	Low	6.00	2.47
402893.7747	6477052.346	50	2520	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	6.00	2.47
402365.4398	6477229.59	50	2147	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.00	2.47
402351.887	6477341.206	50	2646	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	6.00	2.47
402375.6922	6477395.641	50	2688	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.00	2.47
402442.4091	6476987.321	50	2300	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	6.00	2.47
402434.9987	6476990.354	50	2213	*Eucalyptus rudis*	2	1	5-15	2	-	Low	6.00	2.47
402862.0025	6477039.63	51	602	*Eucalyptus rudis*	1	2	5-15	2	-	Low	6.12	2.49
402902.6648	6477062.961	51	604	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.12	2.49
402925.1405	6477158.179	51	612	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.12	2.49
402253.3329	6477285.172	51	2090	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.12	2.49
402349.9766	6477273.342	51	2137	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.12	2.49
402399.7429	6477234.904	51	2144	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.12	2.49

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402561.7027	6477051.642	51	2583	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.12	2.49
402501.7246	6476989.547	51	2586	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.12	2.49
402471.1842	6476986.707	51	2591	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.12	2.49
402429.8405	6477105.043	51	14	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.12	2.49
402585.4615	6477200.859	51	91	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.12	2.49
402902.1595	6477216.605	52	947	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.24	2.51
402899.5272	6477114.591	52	609	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.24	2.51
402928.5366	6477209.427	52	623	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.24	2.51
402439.4612	6477078.529	52	1000	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.24	2.51
402307.3088	6477232.031	52	2120	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.24	2.51
402338.5582	6477379.436	52	2639	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	6.24	2.51
402370.937	6477358.237	52	2652	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	6.24	2.51
402418.9143	6477288.963	52	2658	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.24	2.51
402872.7644	6477152.584	52	2547	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.24	2.51
402885.541	6477172.548	52	2548	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.24	2.51
402598.2703	6477077.596	52	2576	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.24	2.51
402464.4943	6476953.719	52	2203	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.24	2.51
402937.4287	6477159.736	53	614	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.36	2.53
402492.1253	6476983.913	53	692	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.36	2.53
402670.2121	6477025.731	53	1609	*Eucalyptus rudis*	1	1	<5	2	-	Low	6.36	2.53
402372.6415	6477348.165	53	2647	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.36	2.53
402634.3949	6477160.306	53	72	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.36	2.53
402919.6362	6477209.897	54	627	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.48	2.55
402674.9176	6477128.43	54	819	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.48	2.55
403006.7671	6477223.136	54	2050	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.48	2.55
402570.3471	6477187.967	54	95	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.48	2.55
402891.1678	6477188.011	55	945	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.60	2.57
402374.6929	6477351.399	55	755	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402542.9573	6477222.074	55	769	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402244.3889	6477260.366	55	2085	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402308.2482	6477312.411	55	2092	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402300.8146	6477258.131	55	2102	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402301.1912	6477198.604	55	2153	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402322.5774	6477368.087	55	2631	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.60	2.57
402542.3724	6477084.161	55	2224	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.60	2.57

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402999.8001	6477219.301	56	629	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.72	2.59
402606.0435	6477086.206	56	687	*Eucalyptus rudis*	2	1	5-15	2	-	Low	6.72	2.59
402540.4409	6477048.336	56	691	*Eucalyptus rudis*	2	1	5-15	2	-	Low	6.72	2.59
402475.4025	6476990.96	56	695	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.72	2.59
402535.2227	6476900.07	56	1634	*Eucalyptus rudis*	2	1	5-15	2	-	Low	6.72	2.59
402411.7675	6477413.721	57	225	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.84	2.61
402938.4085	6477236.348	57	953	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.84	2.61
402608.4176	6477085.342	57	686	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.84	2.61
402924.7364	6477120.816	57	2533	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.84	2.61
402979.6286	6477200.708	57	2047	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.84	2.61
402386.911	6477161.062	57	2174	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.84	2.61
402572.0868	6477104.286	57	2229	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.84	2.61
402865.4675	6477153.624	58	940	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.96	2.63
402876.2524	6477224.12	58	943	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.96	2.63
402893.7772	6477092.144	58	608	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	6.96	2.63
402790.1565	6477261.552	58	814	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.96	2.63
402302.5527	6477254.489	58	777	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	6.96	2.63
402678.6351	6477035.678	58	1603	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	6.96	2.63
402329.8326	6477182.248	58	2151	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	6.96	2.63
402885.1541	6477173.432	58	2550	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.96	2.63
402531.6101	6477061.444	58	2219	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	6.96	2.63
402444.6269	6477072.702	59	3390	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.08	2.65
402266.062	6477270.217	59	2087	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.08	2.65
402486.2165	6476948.382	59	2598	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.08	2.65
402589.0616	6477200.45	59	90	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	7.08	2.65
402927.6562	6477202.434	60	622	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.20	2.67
402273.919	6477289.913	60	772	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.20	2.67
402458.2405	6476954.546	60	2204	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.20	2.67
403095.498	6477207.233	61	642	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.32	2.69
402571.9459	6477099.186	61	992	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	7.32	2.69
402482.8543	6477123.173	61	998	*Eucalyptus rudis*	2	1	5-15	2	-	Low	7.32	2.69
402384.8216	6477341.186	61	758	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.32	2.69
402974.7229	6477209.087	61	2048	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.32	2.69
402490.3771	6477198.073	61	2187	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.32	2.69
402473.7036	6476960.569	61	2202	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.32	2.69

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402817.4382	6477078.674	62	934	*Eucalyptus rudis*	1	1	<5	2	-	Low	7.44	2.71
402828.6526	6477113.7	62	936	*Eucalyptus rudis*	2	1	5-15	2	-	Low	7.44	2.71
402819.447	6477136.449	62	938	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	7.44	2.71
402995.6598	6477246.865	62	630	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.44	2.71
402330.4355	6477158.641	62	781	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.44	2.71
402305.6169	6477290.547	62	2096	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.44	2.71
402888.1938	6477142.199	63	618	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.56	2.73
402356.3436	6477111.218	63	782	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.56	2.73
402915.5354	6477233.249	64	948	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.68	2.74
402935.6504	6477257.828	64	951	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.68	2.74
402337.765	6477283.647	64	773	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	7.68	2.74
402277.7982	6477270.107	64	776	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	7.68	2.74
402370.7043	6477233.298	64	779	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.68	2.74
402923.4608	6477035.444	64	2521	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.68	2.74
402917.8564	6477107.78	64	2532	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	7.68	2.74
402928.1193	6477133.375	64	2535	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.68	2.74
402995.5794	6477235.335	64	2051	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.68	2.74
402659.5489	6477132.386	64	2909	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	7.68	2.74
402390.1767	6477335.361	64	2659	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.68	2.74
402870.3351	6477680.021	65	2274	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	7.80	2.76
402927.787	6477238.686	65	949	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.80	2.76
402927.3849	6477201.102	65	620	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.80	2.76
402485.1862	6477166.651	65	4	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	7.80	2.76
402538.9513	6477205.407	65	401	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.80	2.76
402944.0814	6477066.568	66	605	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.92	2.78
402480.831	6476967.399	66	693	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	7.92	2.78
402895.236	6477017.883	67	603	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.04	2.80
402916.2428	6477198.447	69	619	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	8.28	2.83
402366.1136	6477238.354	69	778	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.28	2.83
402497.8528	6477168.212	69	2	*Eucalyptus rudis*	1	1	<5	2	-	Low	8.28	2.83
402874.6437	6477164.02	70	941	*Eucalyptus rudis*	2	1	5-15	2	-	Low	8.40	2.85
402610.7579	6477068.07	70	688	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	8.40	2.85
402637.1002	6477164.433	70	761	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.40	2.85
402604.7499	6477172.773	70	763	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	8.40	2.85
402601.1835	6477179.613	70	764	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	8.40	2.85

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402998.7117	6477214.302	70	2049	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.40	2.85
402933.6801	6477155.82	71	611	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	8.52	2.87
402381.4106	6477351.574	71	756	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	8.52	2.87
402884.0786	6477116.995	71	2074	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.52	2.87
402314.9327	6477236.426	71	2132	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	8.52	2.87
402388.8129	6477339.45	72	759	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	8.64	2.88
402292.2492	6477273.126	72	774	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	8.64	2.88
402276.2056	6477258.451	72	775	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.64	2.88
402677.7331	6477040.99	72	1601	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	8.64	2.88
402471.5333	6476979.837	72	2592	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.64	2.88
402930.5658	6477154.904	73	613	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	8.76	2.90
402545.6637	6477216.113	73	768	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.76	2.90
402931.1431	6477183.954	74	617	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.88	2.92
402979.8796	6477194.17	74	628	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	8.88	2.92
402571.1951	6477088.536	75	993	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	9.00	2.93
402613.4349	6477075.19	75	2570	*Eucalyptus rudis*	2	3	>40	2	-	Moderate	9.00	2.93
403013.9396	6477235.287	76	632	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.12	2.95
402558.1863	6477212.906	76	403	*Eucalyptus rudis*	1	2	5-15	2	-	Low	9.12	2.95
402937.6802	6477113.067	77	607	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	9.24	2.97
402934.0119	6477170.789	77	616	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	9.24	2.97
402567.9473	6477101.697	77	700	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.24	2.97
402580.6569	6477098.714	77	995	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	9.24	2.97
402469.8231	6477090.235	78	3387	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.36	2.98
403024.7356	6477274.632	78	959	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	9.36	2.98
402372.1588	6477359.135	80	754	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	9.60	3.01
402324.607	6477293.943	80	2094	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.60	3.01
402460.8375	6476950.137	80	2205	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	9.60	3.01
402843.8363	6477149.318	81	939	*Eucalyptus rudis*	2	1	5-15	2	-	Low	9.72	3.03
402412.5949	6477316.617	81	2662	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.72	3.03
402624.3537	6477161.319	81	76	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	9.72	3.03
402864.7426	6477170.246	82	942	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	9.84	3.04
402501.1029	6477154.829	84	996	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	10.08	3.08
402669.7946	6477019.852	84	1610	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.08	3.08
402937.9924	6477671.237	85	2273	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.20	3.09
402938.2217	6477165.951	85	615	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	10.20	3.09

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402593.9571	6477193.18	85	765	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	10.20	3.09
402498.0899	6476983.637	85	2587	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	10.20	3.09
402587.8458	6477139.023	85	21	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	10.20	3.09
402635.9868	6477162.095	86	762	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.32	3.11
402388.0529	6477329.798	86	2660	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.32	3.11
402606.8951	6477076.237	87	689	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	10.44	3.12
402478.6463	6477167.698	88	997	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.56	3.14
402676.1971	6477123.232	88	2906	*Eucalyptus rudis*	2	1	5-15	2	-	Low	10.56	3.14
402468.6337	6476946.331	89	694	*Eucalyptus rudis*	1	2	5-15	2	-	Low	10.68	3.15
402595.3126	6477070.141	90	690	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.80	3.17
402559.3523	6477199.725	90	766	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.80	3.17
402434.6213	6477099.878	90	783	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	10.80	3.17
402491.5955	6476940.008	90	2599	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	10.80	3.17
402358.6159	6477370.092	93	725	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	11.16	3.21
402389.0358	6477345.882	94	757	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	11.28	3.22
402948.3706	6477253.735	96	952	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	11.52	3.25
402930.2602	6477217.314	98	625	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	11.76	3.28
402377.0352	6477144.672	99	780	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	11.88	3.30
402346.1476	6477377.512	100	752	*Eucalyptus rudis*	3	1	>40	2	-	Moderate	12.00	3.31
402932.8807	6477200.378	101	621	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	12.12	3.32
402537.1258	6477078.569	102	994	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	12.24	3.34
402557.1412	6477213.339	106	767	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	12.72	3.39
402927.7789	6477139.358	108	610	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	12.96	3.42
402361.1556	6477341.848	108	753	*Eucalyptus rudis*	2	1	5-15	2	-	Low	12.96	3.42
402592.0225	6477037.85	108	2582	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	12.96	3.42
402541.8544	6477228.604	109	770	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	13.08	3.43
402909.6329	6477697.797	113	713	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	13.56	3.48
402405.9002	6477323.981	115	760	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	13.80	3.51
402427.8563	6477114.669	119	999	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	14.28	3.56
402893.8855	6477180.831	120	946	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	14.40	3.57
402945.9652	6477107.603	124	606	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	14.88	3.62
402269.0467	6477284.768	124	771	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	14.88	3.62
402818.0513	6477083.89	135	935	*Eucalyptus rudis*	2	1	5-15	2	-	Low	15.00	3.75
402933.4933	6477215.682	140	624	*Eucalyptus rudis*	3	3	>40	2	-	Moderate	16.80	3.81
402345.7446	6477270.531	155	2136	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	18.60	3.98

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402841.2455	6477113.043	161	937	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	19.32	4.04
402898.5848	6477194.289	163	944	*Eucalyptus rudis*	2	1	5-15	2	-	Low	19.56	4.06
402862.5433	6477052.494	164	601	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	19.68	4.07
402568.9378	6477117.005	168	699	*Eucalyptus rudis*	2	2	>40	2	-	Moderate	20.16	4.12
403329.2503	6477428.821	176	963	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	21.12	4.20
402926.0295	6477224.369	179	626	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	21.48	4.23
402925.1225	6477260.278	183	950	*Eucalyptus rudis*	3	2	>40	2	-	Moderate	21.96	4.27
403234.2389	6476829.661	30	0	*Eucalyptus* sp.	3	3	>40	2	-	Moderate	3.60	2.00
403242.6399	6476830.403	30	0	*Eucalyptus* sp.	3	2	>40	2	-	Moderate	3.60	2.00
403236.0373	6476871.167	30	0	*Eucalyptus* sp.	3	2	>40	2	-	Moderate	3.60	2.00
403176.8584	6476864.958	30	0	*Eucalyptus* sp.	3	2	>40	2	-	Moderate	3.60	2.00
402472.3425	6477542.78	37	325	*Eucalyptus* sp.	3	3	>40	2	-	Moderate	4.44	2.18
403192.308	6476755.626	69	3116	*Eucalyptus* sp.	3	3	>40	2	-	Moderate	8.28	2.83
403168.9883	6476739.775	82	3115	*Eucalyptus* sp.	3	3	>40	2	-	Moderate	9.84	3.04
403194.8598	6476755.983	106	3117	*Eucalyptus* sp.	3	2	>40	2	-	Moderate	12.72	3.39
403392.6666	6476652.862	30	2706	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.60	2.00
403166.7402	6477360.001	30	2011	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.60	2.00
403064.2806	6476674.158	31	584	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.72	2.02
403403.876	6476648.312	31	2707	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.72	2.02
403412.7798	6476657.486	31	2710	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	3.72	2.02
403293.5808	6477025.52	31	3192	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	3.72	2.02
403347.7216	6476883.688	32	2752	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.84	2.05
403391.0126	6476637.549	33	2703	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	3.96	2.08
403149.9202	6477377.358	33	2010	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	3.96	2.08
402737.9878	6477624.006	34	2292	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.08	2.10
403373.4898	6476759.992	34	3154	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.08	2.10
402742.2666	6477591.898	34	105	*Eucalyptus todtiana*	1	2	5-15	2	-	Low	4.08	2.10
402423.975	6477523.475	34	416	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.08	2.10
402444.327	6477393.41	35	215	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.20	2.13
403228.6663	6477748.585	35	2256	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.20	2.13
402715.0221	6476950.773	35	1678	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.20	2.13
403384.4227	6476754.663	35	3153	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.20	2.13
403443.387	6476784.04	35	3159	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.20	2.13
403397.9666	6476652.801	35	2705	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.20	2.13
403067.8902	6476983.706	35	2512	*Eucalyptus todtiana*	2	3	>40	2	-	Moderate	4.20	2.13

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403269.3466	6476935.83	36	3240	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.32	2.15
403281.7844	6476931.512	36	3241	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	4.32	2.15
403281.0754	6476926.406	36	3243	*Eucalyptus todtiana*	2	1	5-15	2	-	Low	4.32	2.15
403153.8719	6477299.463	36	2016	*Eucalyptus todtiana*	2	1	5-15	2	-	Low	4.32	2.15
402403.1772	6477501.106	37	218	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.44	2.18
402389.3827	6477528.578	37	231	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	4.44	2.18
403273.8271	6476942.412	37	3224	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.44	2.18
402462.0878	6477486.478	38	217	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	4.56	2.20
403289.3409	6476601.229	38	2701	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	4.56	2.20
403259.2171	6477036.725	38	3190	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	4.56	2.20
402569.8865	6477386.287	39	232	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	4.68	2.23
402460.3674	6477528.144	39	324	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	4.68	2.23
403226.9664	6477768.301	41	2255	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	4.92	2.28
403323.7036	6476982.236	42	2814	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	5.04	2.30
403418.4904	6476774.826	44	3157	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	5.28	2.34
402740.7325	6477593.989	44	106	*Eucalyptus todtiana*	1	1	<5	2	-	Low	5.28	2.34
403248.1358	6477721.276	45	3399	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	5.40	2.37
403037.025	6476704.387	45	545	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	5.40	2.37
403262.9576	6476971.133	46	3227	*Eucalyptus todtiana*	1	2	5-15	2	-	Low	5.52	2.39
403251.7739	6476912.606	46	3251	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	5.52	2.39
403272.1495	6477050.261	47	2862	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	5.64	2.41
403370.9193	6477174.242	49	2840	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	5.88	2.45
403194.5311	6476991.773	50	3252	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	6.00	2.47
402713.7383	6476946.437	51	1677	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	6.12	2.49
403424.0976	6476752.153	52	660	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	6.24	2.51
403356.8505	6476879.007	52	665	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	6.24	2.51
402740.9113	6477595.1	52	107	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	6.24	2.51
403117.4438	6477640.006	52	25	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	6.24	2.51
402565.892	6477378.378	53	233	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	6.36	2.53
403252.2928	6477742.156	53	3400	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	6.36	2.53
403358.0159	6476765.168	53	662	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	6.36	2.53
403281.9803	6477051.462	53	2861	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	6.36	2.53
403138.0187	6476882.933	54	681	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	6.48	2.55
403219.935	6477751.163	60	803	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	7.20	2.67
402814.3613	6477674.282	65	2275	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	7.80	2.76

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
403210.165	6477773.575	65	804	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	7.80	2.76
403224.2909	6477730.807	68	805	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	8.16	2.81
403063.4734	6476679.472	68	583	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	8.16	2.81
403477.2437	6476736.024	78	985	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	9.36	2.98
403172.7395	6477356.067	79	639	*Eucalyptus todtiana*	3	1	>40	2	-	Moderate	9.48	3.00
403094.8129	6476968.773	82	683	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	9.84	3.04
403305.4281	6476983.394	85	685	*Eucalyptus todtiana*	3	2	>40	2	-	Moderate	10.20	3.09
402414.8917	6477493.346	96	224	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	11.52	3.25
402922.4897	6477679.294	103	714	*Eucalyptus todtiana*	2	2	>40	2	-	Moderate	12.36	3.35
403496.9644	6476711.932	107	987	*Eucalyptus todtiana*	3	3	>40	2	-	Moderate	12.84	3.40
403476.409	6476794.66	156	984	*Eucalyptus todtiana*	1	1	<5	2	-	Low	18.72	3.99
402717.9513	6476831.296	30	1662	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	3.60	2.00
403012.538	6476992.718	30	3476	*Nuytsia floribunda*	2	2	15-40	2	-	Moderate	3.60	2.00
403058.1049	6476696.826	31	581	*Nuytsia floribunda*	3	3	>40	2	-	Moderate	3.72	2.02
402704.1455	6477319.936	33	2931	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	3.96	2.08
402707.5542	6477319.747	37	2930	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	4.44	2.18
402421.5484	6477499.95	39	219	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	4.68	2.23
402802.1522	6476823.778	40	908	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	4.80	2.25
403020.7583	6476733.389	40	3072	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	4.80	2.25
402943.5451	6476932.979	40	3365	*Nuytsia floribunda*	2	3	>40	2	-	Moderate	4.80	2.25
402752.7781	6477321.172	40	2926	*Nuytsia floribunda*	1	1	<5	2	-	Low	4.80	2.25
402662.8224	6476836.76	41	1661	*Nuytsia floribunda*	1	2	5-15	2	-	Low	4.92	2.28
403097.8148	6476971.572	44	2619	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	5.28	2.34
402786.6735	6476819.419	48	1941	*Nuytsia floribunda*	3	1	15-40	2	-	Moderate	5.76	2.43
403080.9206	6477006.887	49	2514	*Nuytsia floribunda*	3	3	>40	2	-	Moderate	5.88	2.45
402733.3686	6476972.12	51	1679	*Nuytsia floribunda*	3	2	>40	2	-	Moderate	6.12	2.49
402867.4572	6476812.978	65	3327	*Nuytsia floribunda*	3	3	>40	2	-	Moderate	7.80	2.76
403136.3985	6476593.025	34	1841	Stag	0	1	<5	#N/A	-	Low	4.08	2.10
402751.4931	6476786.938	34	3201	Stag	0	1	<5	#N/A	-	Low	4.08	2.10
402771.5642	6476786.019	34	3209	Stag	0	1	<5	#N/A	-	Low	4.08	2.10
402651.4174	6477311.455	37	2945	Stag	0	2	<5	#N/A	-	Low	4.44	2.18
403096.9578	6476620.922	39	1895	Stag	0	2	<5	#N/A	-	Low	4.68	2.23
402581.3693	6477512.774	39	116	Stag	0	1	<5	#N/A	-	Low	4.68	2.23
402753.3186	6477324.06	39	2925	Stag	0	1	<5	#N/A	-	Low	4.68	2.23
403128.8062	6476605.37	40	1859	Stag	0	2	<5	#N/A	-	Low	4.80	2.25

Easting	Northing	DBH	Tag No.	Species	Health	Structure	ULE	Significance	Significant Value	Retention Value	TPZ	SRZ
402760.4464	6476770.837	42	3212	Stag	0	1	<5	#N/A	-	Low	5.04	2.30
402729.8679	6477261.979	43	2918	Stag	0	2	<5	#N/A	-	Low	5.16	2.32
403131.8342	6476625.464	45	1862	Stag	0	2	<5	#N/A	-	Low	5.40	2.37
402658.3821	6477305.535	45	2944	Stag	0	2	<5	#N/A	-	Low	5.40	2.37
402942.4275	6476640.527	47	3003	Stag	0	2	<5	#N/A	-	Low	5.64	2.41
403155.7907	6476694.199	47	1830	Stag	0	2	<5	#N/A	-	Low	5.64	2.41
402867.19	6476841.244	49	901	Stag	0	2	<5	#N/A	-	Low	5.88	2.45
402553.5328	6477264.521	49	2959	Stag	0	1	<5	#N/A	-	Low	5.88	2.45
402660.7733	6477392.802	49	2981	Stag	0	2	<5	#N/A	-	Low	5.88	2.45
402640.7544	6477288.185	51	2946	Stag	0	1	<5	#N/A	-	Low	6.12	2.49
402660.3796	6477364.419	52	2979	Stag	0	1	<5	#N/A	-	Low	6.24	2.51
402987.4989	6476637.737	54	3042	Stag	0	2	<5	#N/A	-	Low	6.48	2.55
403301.8156	6476844.345	55	679	Stag	0	2	<5	#N/A	-	Low	6.60	2.57
402491.6331	6477384.88	55	255	Stag	0	2	<5	#N/A	-	Low	6.60	2.57
403193.9986	6477178.895	58	644	Stag	0	2	<5	#N/A	-	Low	6.96	2.63
402517.664	6477104.99	58	697	Stag	0	2	<5	#N/A	-	Low	6.96	2.63
403284.4706	6476857.263	59	678	Stag	0	2	<5	#N/A	-	Low	7.08	2.65
403096.066	6476655.28	61	1892	Stag	0	2	<5	#N/A	-	Low	7.32	2.69
403489.623	6476727.826	61	986	Stag	0	2	<5	#N/A	-	Low	7.32	2.69
402667.4727	6477364.93	61	2980	Stag	0	1	<5	#N/A	-	Low	7.32	2.69
403003.0245	6477519.422	64	707	Stag	0	2	<5	#N/A	-	Low	7.68	2.74
402930.2434	6476978.638	64	667	Stag	0	2	<5	#N/A	-	Low	7.68	2.74
402537.7827	6477458.373	69	728	Stag	0	3	<5	#N/A	-	Low	8.28	2.83
402678.8319	6477324.685	69	2934	Stag	0	1	<5	#N/A	-	Low	8.28	2.83
402599.9854	6477615.604	70	723	Stag	0	1	<5	#N/A	-	Low	8.40	2.85
402857.4606	6476849.355	71	826	Stag	0	1	<5	#N/A	-	Low	8.52	2.87
403015.2228	6477289.841	71	958	Stag	0	1	<5	#N/A	-	Low	8.52	2.87
402613.2672	6477252.672	72	737	Stag	0	1	<5	#N/A	-	Low	8.64	2.88
402648.1014	6477331.821	74	740	Stag	0	3	<5	#N/A	-	Low	8.88	2.92
403145.3892	6477115.027	74	2863	Stag	0	2	<5	#N/A	-	Low	8.88	2.92
403367.8702	6477136.189	76	649	Stag	0	2	<5	#N/A	-	Low	9.12	2.95
403080.0191	6476661.004	77	1881	Stag	0	1	<5	#N/A	-	Low	9.24	2.97
403382.4288	6477168.031	77	978	Stag	0	1	<5	#N/A	-	Low	9.24	2.97
402760.3792	6476917.945	81	1680	Stag	0	1	<5	#N/A	-	Low	9.72	3.03
403186.1416	6477329.809	82	641	Stag	0	2	<5	#N/A	-	Low	9.84	3.04

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403232.7085	6477751.505	84	802	Stag	0	1	<5	#N/A	-	Low	10.08	3.08
403065.1544	6477002.859	91	684	Stag	0	2	<5	#N/A	-	Low	10.92	3.18
403330.0281	6476863.235	101	990	Stag	0	2	<5	#N/A	-	Low	12.12	3.32
403386.2012	6477129.155	108	650	Stag	0	2	<5	#N/A	-	Low	12.96	3.42
403273.5389	6476852.393	119	677	Stag	0	2	<5	#N/A	-	Low	14.28	3.56
403348.8179	6477300.411	125	971	Stag	0	1	<5	#N/A	-	Low	15.00	3.63