Terrestrial Ecological Assessment

South Thornlands PDA - Precinct 1

Springacre Road, Thornlands

Redland City

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Client: Mirabel Thornlands Pty Ltd

Project Title: Ecological Assessment – Southern Thornlands PDA – Precinct 1, Springacre Road, Thornlands, Redland City

Project Author/s: Adrian Caneris, Emma Green, Paulette Jones

Project Summary: An ecological assessment of the Southern Thornlands Priority Development Area Precinct 1, Springacre Road, to ground truth and identify flora and fauna species and habitats present, detail their regional and local significance under relevant legislation and identify site ecological constraints and opportunities for development planning.

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Biodiversity Assessment and Management Pty Ltd

Date: 22/08/2025

Managing Director

Ecological Assessment

Southern Thornlands PDA - Precinct 1
Springacre Road, Thornlands, Redland City

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Table of Acronyms and Abbreviations

BAAM	Biodiversity Assessment and Management Pty Ltd
CEEVNT	critically endangered, endangered, vulnerable or near threatened
DBH	diameter at breast height
DESI	Queensland Department of Environment Science and Innovation
ERA	Early Release Area
ILUP	Interim Land Use Plan
MLES	Matters of Local Environmental Significance
MSES	Matters of State Environmental Significance
NC Act	Queensland *Nature Conservation Act 1992*
NJKHT	non-juvenile Koala habitat tree
PDA	Priority Development Area
PKFT	preferred Koala food tree
RCC	Redland City Council
RE	Regional Ecosystem
SAT	Spot Assessment Technique
SPP	State Planning Policy
ST	South Thornlands
SC 16	State Code 16: Native vegetation clearing
TEC	Threatened Ecological Community
VM Act	Queensland *Vegetation Management Act 1999*

1.0 INTRODUCTION

1.1 BACKGROUND AND STUDY AREA DESCRIPTION

Biodiversity Assessment and Management (BAAM) has prepared this ecological assessment to inform development planning for the Southern Thornlands Priority Development Area (PDA) Precinct 1, located at Springacre Road, Thornlands.

The Southern Thornlands PDA was declared under section 40 of the *Economic Development Act 2012*, on 4 April 2025 and the Southern Thornlands PDA Interim Land Use Plan (ST ILUP) came into effect (**Snip 1)**.

The ST ILUP is a temporary planning instrument which will regulate development in the area. It is in effect while detailed planning and community engagement is undertaken as part of the development scheme preparation process. A PDA development scheme comprises a vision, a land use plan, an infrastructure plan and an implementation strategy.

The ST PDA covers 890 hectares and is considered to play an important role in addressing Redland City Local Government Area's (LGA) future housing, infrastructure, and economic needs. Recognised as a priority future growth area in the 2023 Shaping SEQ, this PDA supports the region's future growth.

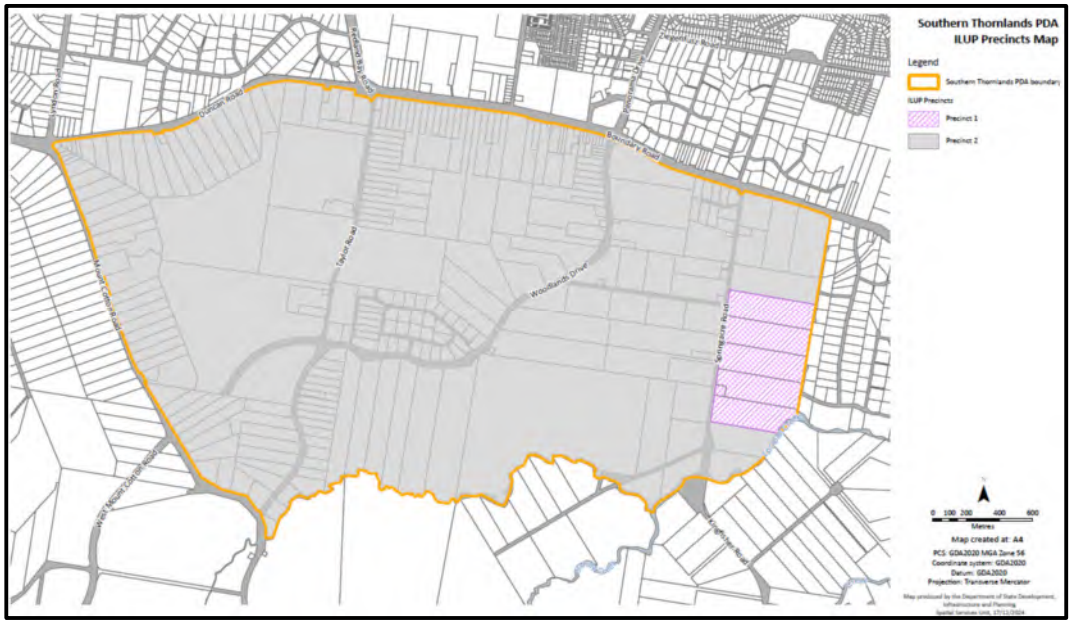
As part of the declaration the Southern Thornlands PDA Interim Land Use Plan (ST ILUP) the declaration identifies two precincts, which include:

- *Precinct 1: Eastern Precinct* – located east of Springacre Road. Precinct 1 provides for a residential neighbourhood supported by a mixed-use centre. Development applications may be lodged, assessed and decided while the ILUP is in effect and is the focus of this report.
- *Precinct 2: Investigation Precinct* – comprising the balance of the PDA. Development in Precinct 2 is restricted to interim or temporary uses until the PDA Development Scheme is finalised.

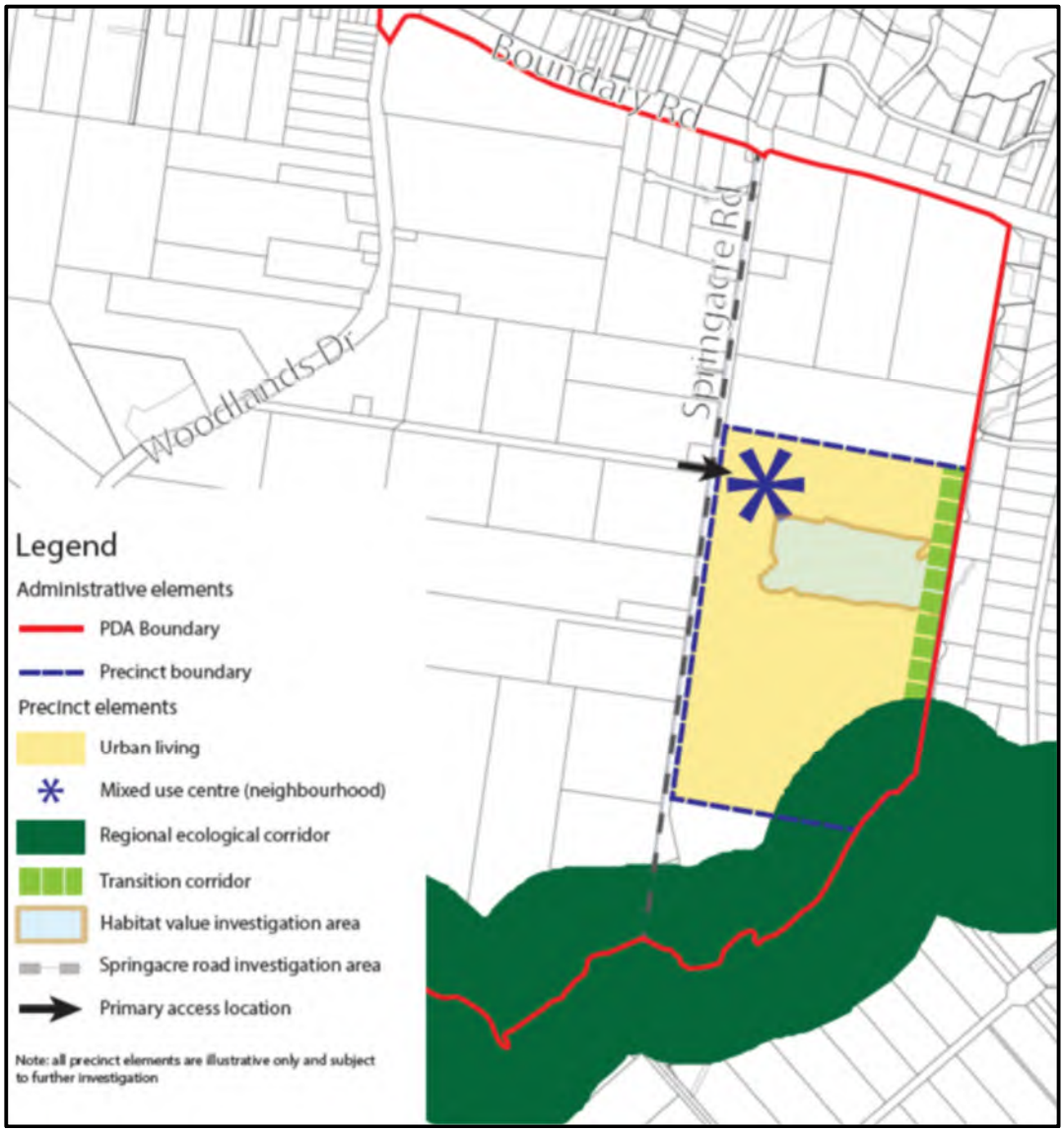
Precinct 1 is 40.8 ha in size and encompasses Lots 12, 13, 14 and 16 on RP 53653 and Lots 1 & 2 on RP 128089 (**Figure 1.1** and **Snip 1**), which are hereafter collectively referred to in this report as the 'study area'.

The ST ILUP identifies Precinct 1 seeks to establish a new neighbourhood with a positive identity that responds to site characteristics, setting, landmarks and views. The precinct comprises a range of residential uses, dwelling types and centre uses connected by a clearly legible street and open space network that incorporates high quality streetscapes and urban design. The precinct provides diverse housing, catering for the changing needs of the Redlands community including housing that is affordable, accessible and enables ageing in place and intergenerational living. Key elements of Precinct 1 are shown in **Snip 2**.

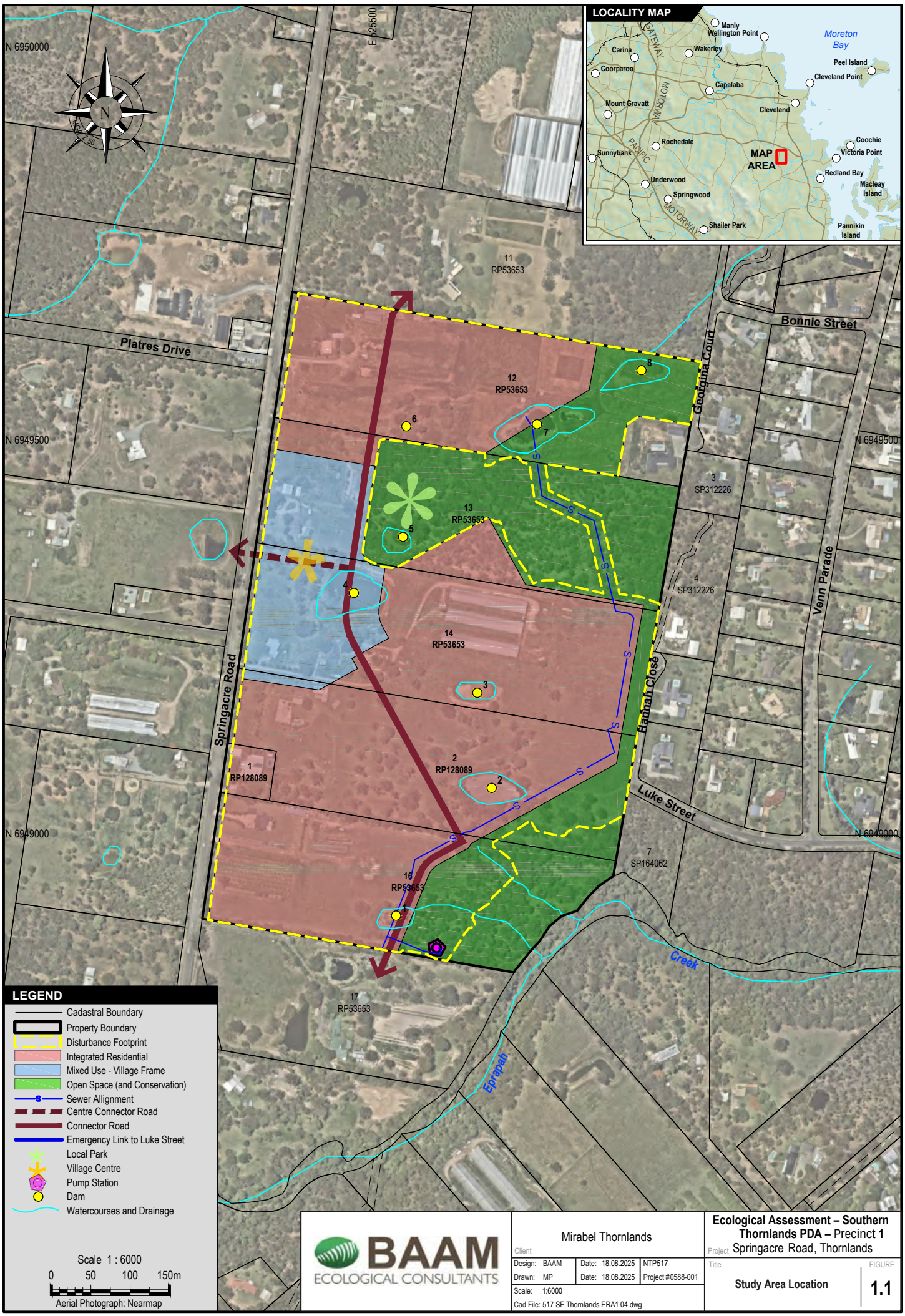
Mirabel Thornlands Pty Ltd seek development approval in relation to the area comprising "Precinct 1" under the *Southern Thornlands Priority Development Area Interim Land Use Plan* (ILUP). Precinct 1 is situated to the east of Springacre Road, Southern Thornlands (**Snip 1**).



Snip 1: Showing the declared ST PDA and Precinct 1 (pink shade) and 2 (grey shade) boundaries.



Snip 2: Showing Precinct 1 from the ST ILUP



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Client: Mirabel Thornlands

Project: Ecological Assessment – Southern Thornlands PDA – Precinct 1 Springacre Road, Thornlands

Design: BAAM	Date: 18.08.2025	NTP517
Drawn: MP	Date: 18.08.2025	Project #0588-001

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Cad File: 517 SE Thornlands ERA1 04.dwg

Title: Study Area Location

FIGURE 1.1

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This development application seeks EDQ approval for the Southern Thornlands Precinct 1 Land Use Plan, which will establish the land use pattern for Precinct 1. More specifically, this application seeks a PDA Development Approval (PDA Development Application DEV2025/1656) for

- **Preliminary Approval** for **Material Change of Use** (Southern Thornlands Precinct 1 Land Use Plan).

Specifically, PDA Development Application DEV2025/1656 seeks Preliminary Approval for Material Change of Use - Precinct 1 Land Use Plan at 62-74, 76-94, 96-108, 110-118, 120-122 and 124-138 Springacre Road, Thornlands described as Lots 12, 13 and 14 on RP53653, Lots 1 and 2 on RP128089, and Lot 16 on RP53653

The study area is situated within the Southern Thornlands PDA. Given the recency of the establishment of the PDA, no Development Scheme currently exists for the PDA. As such, the Interim Land Use Plan (ILUP) for the PDA and existing supporting policies which guide PDA Development Schemes will be utilised to assess applications in the ERA. **Snip 2** shows the ST ILUP mapping of Precinct 1.

This application involves seeking preliminary approval to establish the Land Use Plan to guide the future development of the Southern Thornlands ERA for a residential community. The application for the land use plan includes provisions for land use mix and location, whole of site maximum density, high level engineering solutions (civil, stormwater and traffic), and location of Conservation areas, local parks and open space.

The study area is located within a semi-rural setting with existing land uses including minor cultivation, livestock activities and associated dwellings. Springacre Road forms the western boundary, and the study area slopes away from the road towards the east. The northern portion drains to a Stream Order 1 tributary of Eprapah Creek along a series of dams and the southern portion drains to the main (Stream Order 3) channel of Eprapah Creek that borders the south-east corner of the study area.

There are two forested areas present in the central eastern (approximately 7 ha and identified as habitat investigation area on the ST ILUP) and south-eastern (approximately 4 ha) portions of the study area. The south-eastern portion includes riparian vegetation associated with Eprapah Creek. These forested areas have been subjected to prior disturbances and primarily contain regrowth vegetation. The remainder of the study area is comprised of agricultural land in fallow condition, with around 25 ha of slashed paddock and grassy lawns, of which approximately 5.5 ha supports scattered paddock trees, mostly in the central blocks, exotic trees around dwellings, and vegetation associated with the fringes of eight dams constructed for rural purposes. Defined watercourses are restricted to the ephemeral channel between the two dams in the north-east of the study area and two drainage lines in the south-eastern portion feeding into Eprapah Creek. Minor overflow paths are present downslope from the other farm dams.

While the site is predominantly cleared with prior disturbances noted across the study area, the landscape is known to support Koalas, and formulation of the land use plan has incorporated ecological input resulting in the inclusion of ‘open space’ sited in part to retain a majority of the existing bushland habitat, including retaining vegetation associated with the Eprapah Creek corridor.

It is noted the ST PDA Precinct 1 has previously obtained an approval under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* for a development layout which generally aligns with the concept layout. Therefore, matters of National Environmental Significance have been previously assessed by the relevant regulator and therefor, are not further addressed within this report.

1.2 EDQ INFORMATION REQUEST - 30 JULY 2025

The Minister for Economic Development Queensland (MEDQ) has undertaken a preliminary assessment of the PDA development application and has issued a formal information request (DEV2025/1656). As part of the EDQ information request, the following is of relevance to this report.

Ecological Matters

1. An amended Ecological Assessment Report (EAR) addressing the Southern Thornlands PDA Interim Land Use Plan's (ILUP) "avoid- mitigate-offset hierarchy" and justify encroachment into mapped areas of MSES and/or the ILUP identified Habitat value investigation area. Specifically, the amended report should provide:

   a) Assessment of requirements of the ILUP Section 4.1.5 Environment and referenced State Codes and Policies.

   b) Accurate representation of trees to be removed for the development in areas mapped as MSES and in proposed retention areas, including the Eprapah Creek corridor.

   c) Detailed analysis of potential impacts on ground rectified values within the ILUP's Habitat value investigation area and Regional ecological corridor (Eprapah Creek) to demonstrate the suitability of a neighbourhood park.

   d) An assessment of the avoid-mitigate-offset hierarchy.

This report (version 2) has been updated to respond to the EDQ information request. The primary changes are found in the **Sections 5.0 and 7.0** and on **Figure 5.3**. **Appendix G** is also provided to further inform understanding of the Habitat Value Investigation Area and land within the Eprapah Creek corridor.

1.3 STUDY AIMS

The aims of this assessment are to:

- Describe currently recognised ecological values, based on initial desktop assessment;
- Describe the vegetation and waterbodies and associated fauna habitats recorded within the study area during recent field surveys, including mapping of significant features;
- Report field assessment results and describe existing ecological values of the study area, including the presence or likely presence of fauna species of special conservation significance, highlighting any significant values that present opportunities and/or constraints for future land use options that will contribute further to ecologically responsive development planning;
- Provide an overview of potential legislative requirements in relation to the identified ecological values proposed for impact: and
- Respond to the EDQ information request.

2.0 METHODOLOGY

2.1 DESKTOP REVIEW

The desktop review comprised a search of online databases and mapping and an analysis of information for conservation significant vegetation communities, flora and fauna species in the local area. For the purposes of this report, conservation significant vegetation communities and flora and fauna species include:

- Flora and fauna species listed as critically endangered, endangered, vulnerable or near threatened (CEEVNT) or Special Least Concern under the Queensland *Nature Conservation Act 1992* (NC Act); and
- Regulated Vegetation and Essential Habitat under the Queensland *Vegetation Management Act 1999* (VM Act).

Reviewed information included:

- Proposed Southern Thornlands Precinct 1 Land Use Plan (**Figure 1.1**);
- Queensland Wildlife Online database, flagging NC Act listed species recorded in the local area (**Appendix A**);
- State mapping of Matters of State environmental significance (MSES), including regulated vegetation, essential habitat, wetlands, waterways and Koala habitat (**Appendix B**);
- Redland City Council environmental overlays mapping (**Figure 7.1**); and
- State Biodiversity Corridors and RCC Wildlife Connections Plan (RCC 2018a) (**Appendix C**).

2.2 FIELD ASSESSMENT

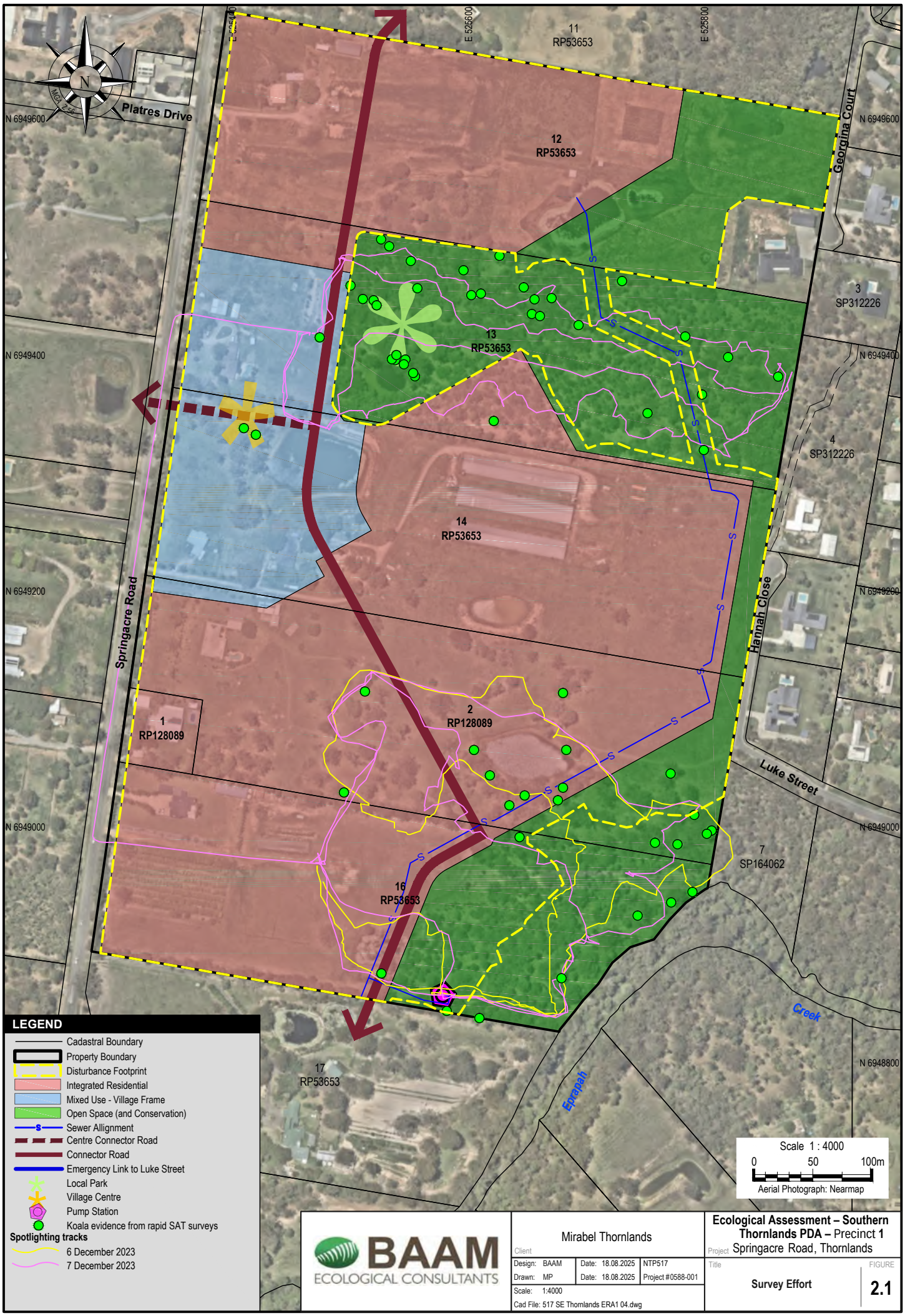
The information presented in this report is informed through desktop research and a preliminary site investigation undertaken in September 2023, as well as additional, targeted surveys completed in December 2023 to meet the requirements of the PDA Guideline no. 14 for robust field surveys. **Figure 2.1** shows survey tracks for the preliminary site investigation and targeted fauna surveys. Tracks for the tree surveys are not shown.

All work was performed in accordance with BAAM's Scientific Purposes Permit and Animal Ethics Approval.

2.2.1 Preliminary Site Investigation

BAAM Principal Wildlife Specialist Adrian Caneris and Project Ecologist Emma Green visited the site on 11 September 2023 to conduct preliminary site investigations. The field assessment was confined to one day as access was limited by landholder site access consents, and not all parts of all properties could be accessed on the day.

The focus of the initial site investigation was to assess the overall ecological values, plot and identify native vegetation and ground truth the ecological values identified in the desktop assessment. Survey methods included ground-truthing mapped regional ecosystems, assessment of habitat suitability for CEEVNT species, active searching for individuals and signs of the presence of CEEVNT species and taking records of incidental fauna observations.



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Scale: 1:4000

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Title: Survey Effort

FIGURE 2.1

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2.2.1 Targeted Fauna Surveys

Additional, targeted surveys including Rapid Koala SAT surveys, frog surveys, and spotlighting with call playback were completed by BAAM Principal Ecologist Dr Penn Lloyd and Project Ecologists Emma Green and Conor O'Brien between 6 – 7 December 2023. Adrian Caneris revisited the site on April 24, 2025, to broad aspects of current site conditions.

Koala presence was assessed using the 'Rapid' Spot Assessment Technique (SAT) conducted in the study area where there were concentrations of preferred Koala food trees. The assessment involved searches for Koala scat within a 1m radius of preferred koala food trees (PKFT) and important ancillary habitat trees with a diameter at breast height (DBH) greater than 30cm. For the purpose of this assessment, the tree species searched were limited to:

- Tallowwood *Eucalyptus microcorys*
- Forest Red Gum *Eucalyptus tereticornis*
- Small-fruited Grey Gum *Eucalyptus propinqua*
- Scribbly Gum *Eucalyptus racemosa*
- Narrow-leaved Red Gum *Eucalyptus seeana*
- Red Mahogany *Eucalyptus resinifera*
- Brush Box *Lophostemon confertus*

Searches were discontinued either when a Koala faecal pellet was located within a plot or after 5 to 7 PFKTs had been sampled.

Targeted frog surveys were conducted at each of the dams located within the study area, with particular focus on identifying presence of Tusked Frog *Adelotus brevis* considered as having potential to occur based on the desktop assessment and preliminary site investigation. The surveys involved visual searches and listening for frog calls both passively and in response to call play-back at dusk.

Spotlighting within the forested portions of the study area was undertaken over two consecutive nights (6 and 7 December 2023) focused on detecting presence of Greater Glider *Petauroides volans*, Koala *Phascolarctos cinereus*, and Powerful Owl *Ninox strenua.* Call-playback for Powerful Owl was conducted during the spotlighting as an additional detection measure.

2.2.2 Tree Plot

A comprehensive tree plot, including identification of all non-juvenile Koala habitat trees (NJKHTs)1 within the proposed development footprint, was completed by RPS surveyors with assistance from BAAM Project Environmental Scientist Nicole Bonney on 6 – 8 and 11 December 2023. Additional tree plot for NJKHT identification within the proposed conservation zone (Eprapah Creek Corridor) to the south east was undertaken by Nicole Bonney in co-ordination with RPS surveyors from on 12-15th March 2024.

[1] A NJKHT is defined as any tree belonging to the *Corymbia*, *Melaleuca*, *Lophostemon*, *Eucalyptus* or *Angophora* genera that has a height of more than four metres, or a trunk with a circumference of more than 31.5 centimetres at 1.3 metres above the ground, or both (State Planning Policy 2/10: Koala Conservation in South East Queensland).

The RPS detail and contour survey results, including tree locations and information, are provided at **Appendix D**. Additional information recorded by BAAM, including tree species names and notable habitat features (i.e. hollows, arboreal termite mounds etc), are also provided at **Appendix D.**

It should be understood when reviewing **Figure 5.3** and **Appendix D** that tree plotting was focused on potential disturbance areas during initial design stages and does not include all trees to be retained. It does capture all trees to be removed. Furthermore, where trees are identified as subject to detailed design or potential for retention, these trees are proximate to locations where necessary infrastructure is to be constructed. The actual extent of tree retention will be confirmed in the ROL assessment phase, and at that point there would be full restoration of any areas within the greenspace that are disturbed by civil works.

3.0 GENERAL ECOLOGICAL VALUES

3.1 TERRESTRIAL HABITATS

The study area supports a mix of habitat values, with individual, scattered, paddock trees, patches of remnant and regrowth native vegetation with some older native trees, gardens with planted trees and fruit orchards around dwellings, and grassy/weedy pastures (**Photo 1**).

There are two large, forested zones within the study area: a patch in the south-eastern portion located on Lot 16/ RP53653 and continuing northwards into Lot 2 RP128089; and the central and eastern portion of Lot 13/ RP53653 identified as habitat investigation area by the ST ILUP. These are considered to provide the highest value fauna habitats within the study area.

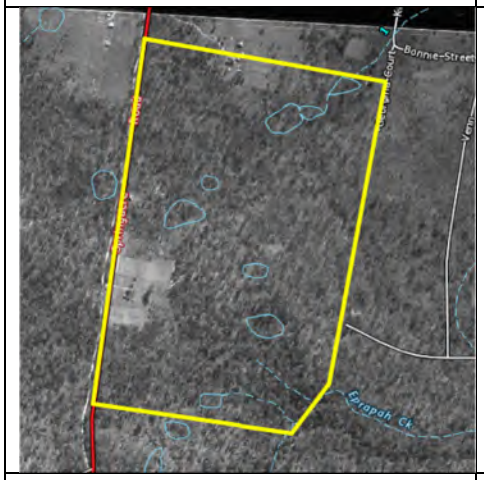
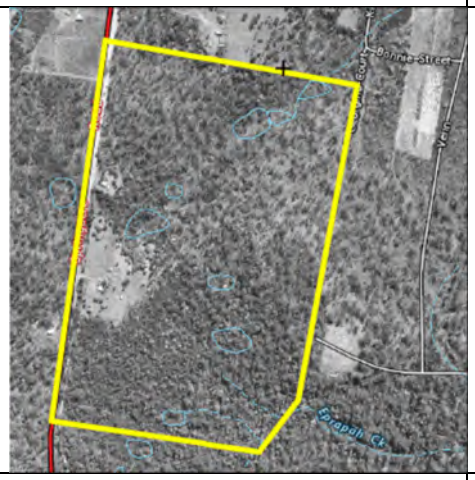
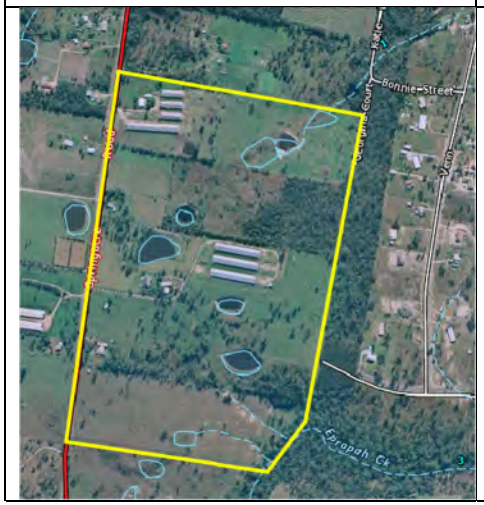
The vegetated portion of Lot 13/RP53653 contained scattered Scribbly Gums *Eucalyptus racemosa* with some trees holding hollows of sufficient size to support large owl species and Glossy Black-Cockatoos (**Photo 2**), amongst an understorey of Black She-oak *Allocasuarina littoralis* and occasional Brushbox *Lophostemon confertus.* This area has been subject to prior disturbance with vegetation thinning and vehicle track construction evident on historical aerial imagery (**Table 3.1**). Infestations of Lantana *Lantana camara* were found to be associated with existing tracks, while the more intact areas had considerably less weed presence. The vegetative cover within the central portion of Lot 13 was found to be regrowth dominated by Black She-oak and *Acacia* spp. over a mostly native ground-layer of Feather Sedge *Ptilothrix deusta* and native grasses, as well as occasional regrowth Grass Tree *Xanthorrhoea* sp..

Photo 1: Mix of retained native trees, grassy pasture and orchard (Lot 16/RP53653).

Photo 2: Scribbly Gum hollow in eastern portion of study area

To the west, the vegetation was dominated by Brushbox with medium sized (up to 14 m) Scribbly Gums and Blue Gums *Eucalyptus tereticornis* around Dam 5, and a patch of Broad-leaved Paperbark *Melaleuca quinquenervia* on the western side of the dam. Onsite observations suggest this area has been used historically for motocross recreation, with understorey disturbance and artificial debris present including disused ramps and a foam-filled pit. The disturbance in this area has resulted in the proliferation of several weed species including Lantana, Cocos Palms *Syragrus romanzoffiana*, Ochna *Ochna serrulata*, Corky Passion Fruit *Passiflora suberosa,* Umbrella trees *Schefflera actinophylla*, Black eyed Susan *Thunbergia alata*, Singapore Daisy *Sphagneticola trilobata,* Monstera *Monstera deliciosa*, Mock Orange *Murraya paniculata,* Pink Polka-Dot weed *Hypoestes phyllostachya* and Blue Billy Goat weed *Ageratum conyzoides*.

Table 3.1: Historical aerial imagery of the study area showing changes in vegetation cover from 1955-2022 (source: QImagery 2023)

1955	1964	1970	1977
			
1987	**2002**	**2017**	**2022**
			

The south-east corner of the study area on Lot 16/RP53653 supports vegetated habitats; however, the field survey confirmed the canopy in many portions to be mostly dominated by exotic Slash Pines *Pinus elliottii* (**Photo 3**). Understory vegetation in this area was dominated by exotic grass species and Lantana, increasing in density towards Eprapah Creek. Remnants of the former native canopy included scattered, mature Scribbly Gums and Tallowwoods *Eucalyptus microcorys*. Further north towards the property boundary and into Lot 2/RP128089, the Slash Pines are less dense, and the vegetation reflected a more intact, mature regrowth eucalypt forest ecosystem with mature Tallowwoods dominating the canopy and a subcanopy of Black She-oak.

Within Lot 2 RP128089, large, mature eucalypt trees with occasional hollow bearing trees occurred above a cleared understorey (**Photo 4**). Based on historical aerial imagery, these trees appear to have been present since at least 1955 (**Table 3.1**). Koala activity was confirmed in this area evidenced by old scats found around the base of Tallowwoods, which are known to be preferred food trees for Koala in this landscape. The groundcover to the south and east of Dam 2 is largely dominated by native Blady Grass, with small Lantana bushes emerging as well as Devil's Fig *Solanum chrysotrichum/ torvum* and Balloon Cotton Bush *Gomphocarpus physocarpus* north of the dam, where the Blady Grass grades to non-native pasture grasses.

Photo 3: Slash Pine dominated vegetation in south-east corner within the Eprapah Creek corridor.

Photo 4: Eucalypts over Blady Grass looking west of Dam 2 in Lot 2/RP128089

A small patch (approximately 0.4 ha) of open eucalypt forest occurs on the western side of the large dam (Dam 4) on Lot 14/RP53653, which has been cleared of understorey vegetation. The mature trees in this area also appear to have been standing since at least 1955 (**Table 3.1**), but were not observed to have any notable large hollows.

Review of the historical aerial photography reveals some of the paddock trees in Lot 2 and a very narrow strip of riparian vegetation along Eprapah Creek have been present since 1955. The vegetation in the west of the forested central portion was cleared between 1977 and 1987, and the eastern portion was very highly disturbed between 1987 and 2002.

Outside of the forested areas, individual paddock trees (primarily Scribbly Gum, Red Mahogany *Eucalyptus resinifera*, Tallowwood, and Narrow-leaved Red Gum *Eucalyptus seeana*) and the grassy paddocks provide suitable foraging, roosting and breeding resources for a range of fauna species, although a lack of native mid and ground storey species significantly reduces the complexity of habitat available for native fauna.

Two native mammal species were directly observed during the field surveys, the locally common, Red-necked Wallaby *Macropus rufogriseus* and Swamp Wallaby *Wallabia bicolor.* A mob of Red-necked Wallabies was observed foraging in the open paddock in the southern lot (16/RP53653) and individuals were inadvertently flushed from their rest areas regularly while the field team were traversing the woodland portions of the study area. An individual Swamp Wallaby was flushed in the eastern portions of Lot 13. Signs of the presence of Northern Brown Bandicoot *Isoodon macrourus* were recorded and a Common Ringtail Possum *Pseudocheirus peregrinus* drey was observed. Additional fauna observations recorded whilst spotlighting included Common Brushtail *Trichosurus vulpecula* and Ringtail Possums, Black Flying-Foxes *Pteropus alecto* observed feeding on the fruit of non-native Cocos Palms around the dam in Lot 16, an *Antechinus sp*, and a female Koala and joey on the north-western edge of the forested area on Lot 13.

Two adults and two juvenile (four in total) Tawny Frogmouths *Podargus strigoides* were observed in a Scribbly Gum along the fence line above Dam no 4.

Koala presence was indicated by scats found during the initial site investigation at the base of eucalypts within the study area, including beneath a Brushbox near Dam 6 in the northern lot (12 RP53653), a Blue Gum adjacent to Dam 5 in Lot 13/RP53653, and beneath Tallowwoods in the two southern lots (2 RP128089 and 16 RP535653) (see **Figure 3.1**).

Further habitat utilisation by Koala was confirmed through the Rapid SATs conducted throughout the study area, which located Koala scats at 51 of the 60 (85%) surveyed plots, and the sighting of a female and back-riding joey during surveys conducted on 6 December 2023 (see **Figure 3.1**). A Koala scat was also identified during the second tree plot along the tree line below Dam 2.

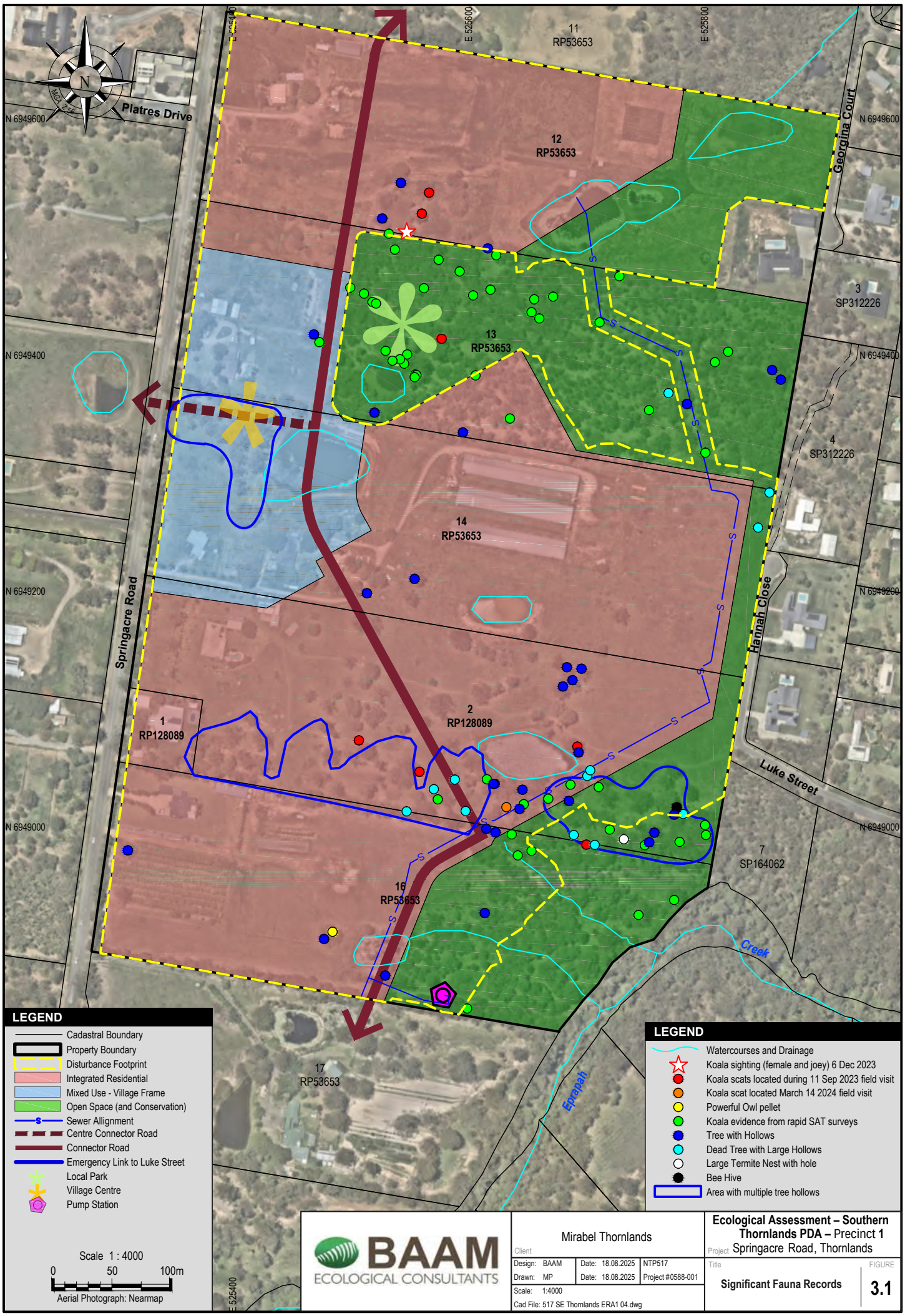
Koala is discussed in detail in **Section 5.3**.

Diurnal bird species over much of the site were found to be restricted to species common within urban landscapes, forest edges and open country, including predatory birds such as Australian Magpie *Gymnorhina tibicen*, Torresian Crow *Corvus orru*, Laughing Kookaburra *Dacelo novaeguineae* and butcherbirds, along with nectivorous species such as Rainbow Lorikeet *Trichoglossus moluccanus* and a range of honeyeaters. Granivores such as Galah *Eolophus roseicapilla* and Sulphur-crested Cockatoo *Cacatua galerita* feed on grass seeds in open areas, and water birds including Hardhead Ducks *Aythya australis*, Pacific Black Duck *Anas superciliosa* and Australian Wood Duck *Chenonetta jubata* frequent the dams. Birds commonly found in paddocks, such as Cattle Egret *Bubulcus ibis* and Australian White Ibis *Threskiornis molucca*, are likely to be present, particularly when conditions are wet. Raptors and owls would hunt over the open pastures and there were nesting opportunities for these species in the larger trees, although no large raptor nests were recorded during the field assessment. A pellet of size and shape to indicate it was of a Powerful Owl (**Photo 5**) was recorded in the southern lot in the location shown on **Figure 3.1** beneath a Scribbly Gum paddock tree with hollows, but not large enough for Powerful Owl breeding requirements (**Photo 6**). While not all hollows were documented throughout the study area (as not all retained trees were subject to inspection or tree plotting), hollows were recorded where encountered, both within the forested areas and in paddock trees (**Figure 3.1**). There are hollow bearing trees with some hollows presenting as suitable for Powerful Owl nesting requirements, though this species prefer to nest within wooded habits and not open pastural areas with scattered trees.

Powerful Owl is discussed in detail in **Section 5.3**.

Tree hollows located within the proposed clearing impact area are also identified in the tree plot data provided in **Appendix D.**

Small woodland birds such as fairy-wrens, fantails, and finches would be largely restricted to the more forested portions of study area where there is native vegetation with a shrubby understorey to provide cover from predators and competitors.



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Design: BAAM	Date: 18.08.2025	NTP517
Drawn: MP	Date: 18.08.2025	Project #0588-001

Scale: 1:4000

Cad File: 517 SE Thornlands ERA1 04.dwg

Title: Significant Fauna Records

FIGURE 3.1

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Photo 5: Powerful Owl pellet at the base of paddock tree. AA battery for scale.

Photo 6: Scribbly Gum paddock tree in southern lot (16 RP53653)

Reptile observations were limited to small skinks, primarily Eastern Grass Skink *Lampropholis delicata* and a single Bearded Dragon *Pogona barbata*; however, Lace Monitor *Varanus varius* scratches were occasionally observed including on the large Scribbly Gums in the southern lot. Large hollow logs in the forested portions of the study area are likely to provide shelter for such species as well as ground-dwelling mammals. There is limited fallen timber to shelter reptiles outside of this vegetation, and it is likely that reptile populations of the paddock areas would be limited to small skinks, Lace Monitors and larger elapid snake species, such as Red-bellied Black Snake *Pseudechis porphyriacus*, which would occur around the dams where frogs are present in wet conditions.

Fauna species directly or indirectly recorded during the field survey are listed in **Appendix E**.

Flowering eucalypts and melaleucas would provide seasonal forage for flying-foxes. Black Flying-foxes *Pteropus alecto* were observed foraging on Cocos Palm fruit around the dam in Lot 16. Insectivorous bats are also likely to forage over the study area with potential roosting sites available in tree hollows and hollow stags.

Common Brushtail Possum and Common Ringtail Possum are known to occur on site as evidenced through direct observations made during spotlighting. Given the presence of hollow-bearing trees and foraging resources observed during the field survey, it is likely that other arboreal hollow-dependant mammals such as Sugar Glider *Petaurus breviceps* and Squirrel Glider *Petaurus norfolkensis* would occur on site. Whilst some hollows are suitably sized for Greater Glider, this species is considered less likely to occur due to the highly fragmented broader landscape which Greater Gliders are unlikely to move through or persist in.

A European Brown Hare *Lepus europaeus* was sighted during the field survey. No other non-native fauna was observed; however, feral cats and foxes are common in the local area and considered likely to occur. The farm dams are also likely to provide habitat for Cane Toad *Rhinella marina*.

3.2 AQUATIC HABITATS

Eight dams are present within the study area (see **Figure 1.1**). The two larger waterbodies in the north-east (Dams 7 and 8) are connected via a shallow, ephemeral floodway and are proposed for modification to perform water quality and/or detention functions and will be retained within the as public open space.

The banks of the waterbodies and riparian corridor are mostly devoid of native vegetation and are dominated by non-native grass cover and woody weeds such as Devil's Fig and Wild Tobacco *Solanum mauritianum*. These two dams are proposed for use for water detention and water quality functions to the west of Dam 7 is a smaller dam (Dam 6) surrounded by native trees, including a Scribbly Gum with small hollows and other NJKHTs with evidence of Koala visitation (scats). Hollow logs are present on the banks of the dam that are likely to provide shelter for frogs and reptile species. The Development Concept Plan currently indicates that this dam will be removed to make way for area mapped as "mixed use residential scale".

Dam 5 located on lot 13/RP53653 is included in the proposed public open space and is not proposed to be retained. Mature Blue Gums and Scribbly Gums line the northern and eastern banks and a patch of Broad-leaved Paperbarks is present to the south-west. Environmental weeds including Lippia *Phyla canescens* and Blue Billygoat are prolific around the moist dam edges and would likely provide habitat for native frog species. An existing dirt track has been constructed around the high bank and exotic plants including Monstera, Umbrella Tree, Ochna, Murraya, Cocos Palm and Fishbone Fern *Nephrolepis exaltata* are present around this track.

The largest water body (Dam 4) is located on Lot 14 and occupies an area of 4,500m^2. A smaller dam (Dam 3) also occurs in Lot 14. There was very little fringing vegetation and no notable habitat features associated with these waterbodies, and both would be removed for development purposes.

Dam 2 on Lot 2 RP128089 was lined on its southern edge by mature, native vegetation including eucalypt and acacia species, and a few NJKHTs were scattered along the northern bank.

The southernmost waterbody on Lot 16 is lined with mature, native trees on the eastern and southern banks. The dam is otherwise surrounded by non-native grasses and artificial debris and was observed to contain only non-native Mosquito Fish *Gambusia affinis*. This dam is identified for removal as part of hydrological management for the proposed development and this area is to be rehabilitated to contribute to long term habitat values and habitat for aquatic and semi aquatic species.

There is potential for native aquatic species (e.g. turtles, eels) to be present. A fauna spotter should be present to relocate terrestrial and aquatic fauna from the dams prior to and during their dewatering.

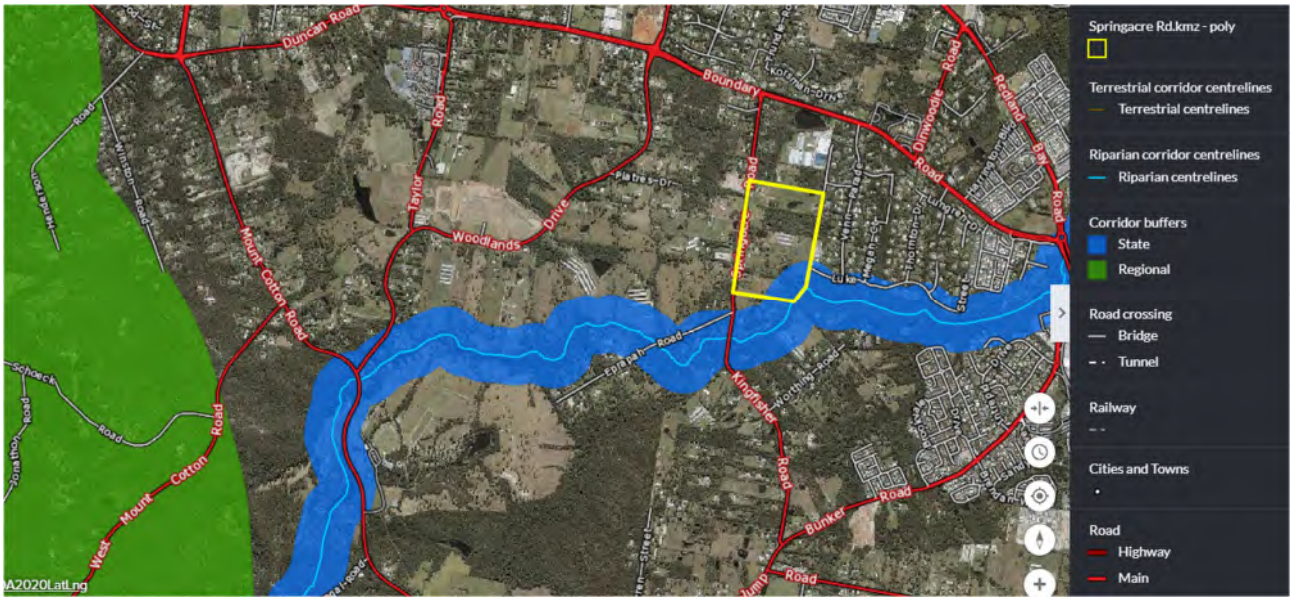
3.3 EXISTING HABITAT CORRIDORS AND CONNECTIVITY

The study area is bounded by properties with the following habitat values:

- Low density residential allotments to the east.
- Rural allotments with mixed native vegetation, pasture, cropping land and residential dwellings and sheds to the north and south.
- A busy, two-lane road runs along the entirety of the western boundary lined with mature native roadside vegetation consisting of NJKHTs. Across the road are rural allotments with mixed native vegetation and pasture.

More broadly, State-wide mapping of Terrestrial and Riparian biodiversity corridors relevant to the study area (**Appendix C**) shows a State Significant Riparian Corridor associated with Eprapah Creek abutting the south-eastern boundary (illustrated in **Image 1** below). The corridor buffer extends over the entirety of the south-eastern forested portion of the study area. The proposed MCU Land use plan has wholly adopted a corridor size and configuration in accordance with prelodgement discussions held with EDQ.

Image 1. State and Regional Biodiversity corridors in relation to the study area (source: Qld Globe)



The study area itself currently provides patchy to somewhat continuous habitat connectivity, with paddock trees and retained property boundary and roadside vegetation connecting the more forested portions. Under its current use, the study area does not present as a barrier to movement for ground and arboreal fauna species that are capable of traversing or inhabiting these modified environments.

The proposed layout has retained the State mapped corridors.

3.4 HISTORICAL LAND USES

Review of aerial imagery (**Table 3.1**) indicates the site consisted of native vegetation until the 1960s with some vegetation cleared and residential dwellings established. Between the late 1960s to early 1970s, poultry sheds were constructed on Lot 12 on RP53653 and Lot 2 on RP128089, with introduction of dams to most lots during this time. At least one residence is evident on each Lot.

In the 1980s, extensive vegetation clearing is evident, seemingly for agricultural purposes. Lot 12 on RP53653 demolished the poultry sheds around 1997 however, Lot 14 on RP53653 retained the poultry Sheds and appears to have remained a functioning poultry farm in 1997.

In 2009, crops appeared within Lot 16 on RP53653 and are present to now. It is around this time that stockpiles become evident within Lot 13 on RP53653 (habitat investigation area) with the beginning of motocross usage within the area, evidence of which was confirmed by our site investigations.

4.0 PRECINCT 1 HABITAT VALUE INVESTIGATION AREA – DEVELOPMENT DESIGN SUMMARY

The development design has been planned and designed to avoid ecological impacts within the Precinct 1 Habitat Value Investigation area where practical within other design constraints. A necessary sewer connection is proposed through this area; its alignment has been designed to minimise habitat loss while accommodating overall design constraints. The Alignment will be subject to further detail design to minimise ecological impacts. Following installation, the area will be rehabilitated in accordance with environmental management standards and asset owner requirements, whilst also providing maintenance access for the asset owner.

We recommend incorporating a natural bush track along the sewer alignment to facilitate pedestrian connectivity between the northern and southern precincts. We also recommend incorporating other existing informal bush tracks through the habitat value investigation area, weaving through gaps in vegetation to facilitate passive recreation opportunities, and provide formalised connectivity between adjoining urban areas. These pathways are recommended to support informal walking activities during the operational phase and will enhance accessibility between precincts while maintaining ecological sensitivity and reducing informal walkway creations

The western portion of the investigation area is designated as a 'Nature Play Park'. Preliminary designs have sought to minimise ecological disturbance while enabling nature-based recreational activities within a predominantly bushland setting of a previously disturbed area (refer **Table 3.1 and Appendix G**). The recreation space will be sensitively integrated with existing vegetation, avoiding higher value trees, through detailed design. This formalisation of recreational use is recommended to reduce ad hoc disturbances that typically occur when people access retained habitat areas informally.

To meet housing targets for Precinct 1 (refer to RPS Town Planning Report), a residential area (is proposed in the central southern section of the Habitat Value Investigation area. This location has been selected to avoid the existing natural overland flow path and maximise use of space where poor quality vegetation exists. Detailed design will include an esplanade road to provide a buffer between residential development and adjacent open space, ensuring appropriate separation and protection of ecological values. The loss in vegetation from the residential area proposed will be mitigated by rehabilitation planting in open space & conservation areas.

All urban development activities within the Habitat Value Investigation area—including sewer installation and nature play infrastructure—will be subject to detailed restoration under a Rehabilitation Management Plan at the Reconfiguration of a Lot (RoL) stage. Rehabilitation of the sewer corridor subject to asset owner advice and excludes the proposed bush track. In respect to the nature play area this area will be the subject of detailed landscape design to maximise native vegetation whilst providing for recreational activities.

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5.0 STATE MATTERS

5.1 MATTERS OF STATE ENVIRONMENTAL SIGNIFICANCE

There are Matters of State Environmental Significance (MSES) identified within the study area, as shown on **Figure 5.1** and included in the MSES Reports for each lot at **Appendix B**. State mapped MSES relevant to this assessment for the entire study area include:

- Wildlife Habitat – Endangered or Vulnerable species – 4.07 ha
- Wildlife Habitat – Special Least Concern species – 6.12 ha
- Koala Habitat – Core (SEQ) – 0.11 ha
- Regulated Vegetation – Endangered /Of Concern in Category B (remnant) – 0.12 ha
- High Ecological Significance Wetlands – 0.01 ha
- Regulated vegetation – intersecting a watercourse – 0.5 km

A breakdown of the relevant MSES for each lot is provided in **Table 5.1**.

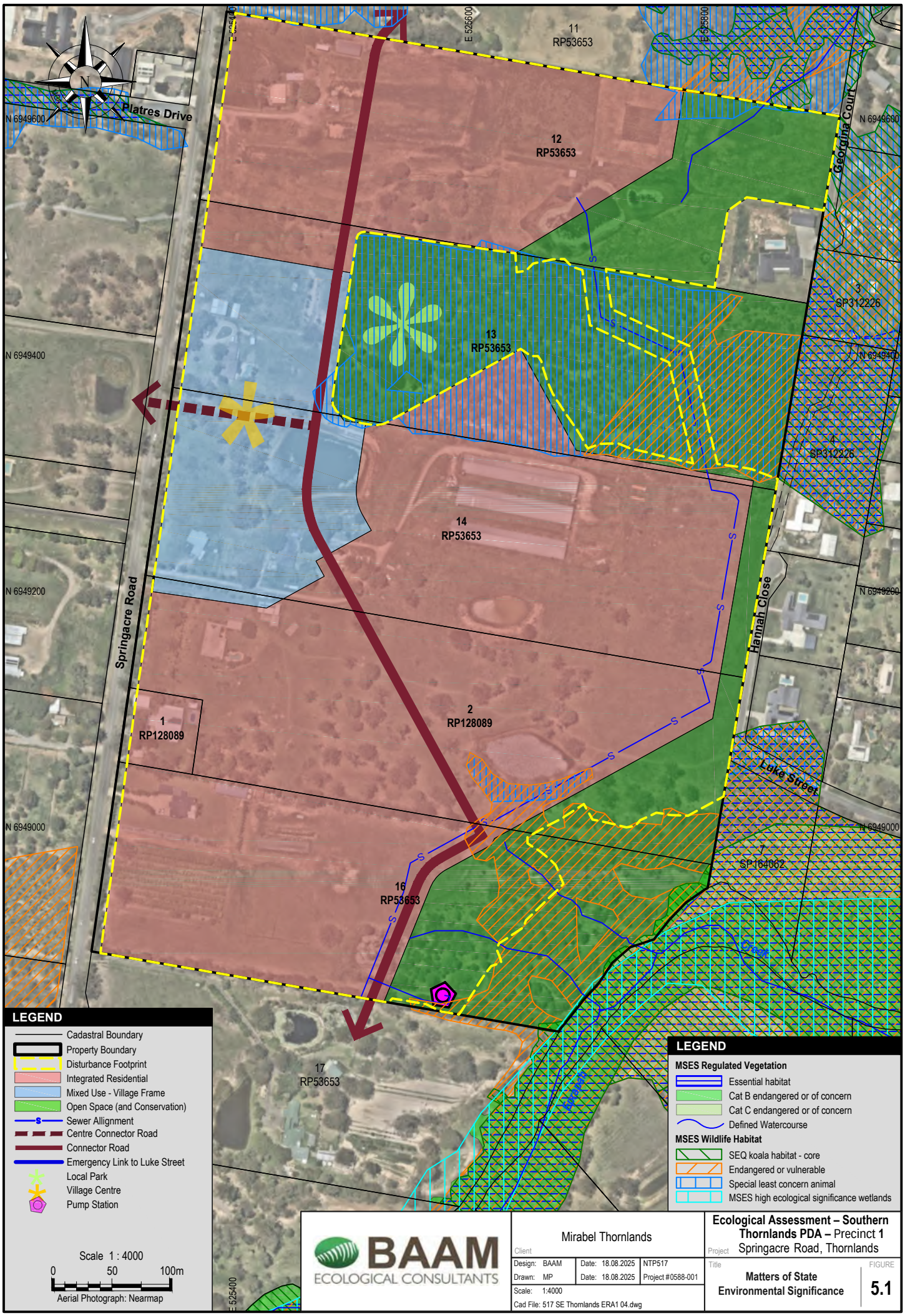
It is noted that wildlife habitat and vegetation intersecting a watercourse are not prescribed matters within an urban area under the *Environmental Offsets Act 2014*. No loss of the Koala habitat, High ecological significant wetlands or regulated vegetation is proposed.

Table 5.1 Relevant MSES

MSES	Lot/Plan	Relevant matter	Total
Wildlife habitat [endangered or vulnerable]	13/RP53653	Tusked Frog[1]	1.57 ha
	16/RP53653	Glossy-Black Cockatoo[2] (core)	1.79 ha
		Tusked Frog[1]	
		Powerful Owl[1]	
	2/RP128089	Tusked Frog[1]	0.72 ha
		Powerful Owl[1]	
Wildlife habitat [special least concern animal]	13/RP53653	Short-beaked Echidna	5.73 ha
		Platypus	
	14/RP53653	Short-beaked Echidna	0.04 ha
	2/RP128089	Short-beaked Echidna	0.17 ha
	12/RP53653	Short-beaked Echidna	0.18 ha
		Platypus	
Koala habitat area – core [SEQ]	16/RP53653	Koala[2]	0.11 ha
Regulated vegetation Category B (remnant)	16/RP53653	RE 12.3.11	0.12 ha
High ecological significance wetlands	16/RP53653		0.01 ha
Regulated vegetation – intersecting a watercourse	16/RP53653		0.3 km
	12/RP53653		0.2 km

1 = records, 2 = based on state habitat modelling

The State Planning Policy (SPP) defines the Queensland Government's policies for matters of state interest in land use planning and development. The SPP specifies that MSES are valued and protected, and the health and resilience of biodiversity is maintained or enhanced to support ecological integrity.



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Title: Matters of State Environmental Significance

FIGURE 5.1

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5.1.1 Koala Habitat Area – Core (SEQ)

The entire study area is within a Koala Priority Area under the south-east Queensland Koala Planning Framework. The mapped regional ecosystem on the south-eastern boundary is additionally mapped as Core Koala Habitat and is proposed to be retained in public open space.

The mapped regional ecosystem and its extent within the study area was ground-truthed in the field as Category B – remnant: Of Concern RE 12.3.11 *Eucalyptus tereticornis +/- Eucalyptus siderophloia*, *Corymbia intermedia* open forest on alluvial plains usually near coast. The occurrence of this RE at the edges of the south-eastern boundary along Eprapah Creek covers a total area of approximately 1,200 m^2 and is incorporated into public open space on the development concept plan.

Under schedule 11 of the *Planning Regulation 2017 (*Assessment benchmarks in relation to Koala habitat in SEQ region), Part 1 provides guidance on the application of the Schedule and its applicability. Part 1, s.1 (f) provides that the schedules do not apply to a PDA related development. Even so, the assessment Benchmarks provide a suitable framework to assess the impacts proposed. If Schedule 11 was applicable, as *the premises on which the development is carried out includes an area that is both – (i) a Koala Priority Area and (ii) a Koala Habitat Area* but does not involve interfering with Koala habitat in a Koala habitat area, it is assessed under schedule 11 of the *Planning Regulation 2017*. The assessment benchmarks of Schedule 11 are listed, and responses are provided, in **Table 5.2**.

Table 5.2 Responses to Schedule 11 benchmarks

Schedule 11 Assessment Benchmark	Response
(1) The following matters are assessment benchmarks for the development -	
(a) The development provides, on the premises, the safe Koala movement measures necessary to maximise the safe movement of Koalas -	
(i) within a Koala habitat area on the premises	No aspect of the proposed development interferes with Koala movement within the core Koala habitat areas as these areas are incorporated into open space within the development footprint.
(ii) between a Koala habitat area on the premises (the first area) and a Koala habitat area or ecological corridor within 200 m of the first area:	The development will not require any clearing of core Koala habitat within the study area and will not create any barriers or present any risks to Koala movement (e.g. through site access) to any areas of mapped Koala habitat or an ecological corridor.
(b) either -	
(i) each building, structure or works associated with the development is at least 50 m from a Koala habitat area; or	No buildings or structures are proposed within 50 m of the Koala habitat area. The design seeks to provide for ecological rehabilitation works adjoining Koala habitat areas and for the felling of exotic trees.
(ii) the development complies with each of the criteria stated in subsection (2).	Complies
(2) For subsection (1)(b)(ii), the criteria are as follows:	
(a) any change to the condition of soil as a result of the development does not adversely affect a Koala habitat area;	No construction works, including earthworks, will occur within 5m of any tree stem within the mapped core Koala habitat as there is none mapped on the site. Should any associated works require actions within or proximate to Core Koala habitats an arborist will be engaged to oversee the works. Any potential ecological restoration works will be undertaken using appropriate low-impact methods to maintain soil integrity. Where exotic trees are removed, these will be cut above ground level with the existing root system kept intact to maintain soil stability. All non-native trees removed will be replaced with new native trees. An arborist will be engaged to oversee works in proximity to any retained vegetation.

Schedule 11 Assessment Benchmark	Response
(b) any alteration of hydrological flows as a result of the development does not adversely affect Koala habitat;	The quantity and velocity of runoff to existing drainage lines will not be altered.
(c) any landscaping associated with the development that involves planting non-native vegetation does not adversely affect a Koala habitat area;	No invasive exotic species will be planted in the landscaped components of the development.
(d) the development does not adversely affect a Koala habitat area by resulting in the increased growth or spread of weeds in the Koala habitat area;	Retained native vegetation and open space areas will be maintained through the implementation of a Vegetation Management Plan to ensure there is no introduction or spread of weeds on site or into the adjacent habitat.
(e) a building, structure or works associated with the development is located to minimise the amount of vegetation required to be cleared for safety purposes.	The layout of the proposed development has been formulated to retain and buffer all core Koala habitat mapped within and external to the study area and open spaces have been designed to incorporate as many of the locally mapped habitat and paddock trees as possible. There will be no requirement for clearing for infrastructure protection beyond that proposed to establish the development.

5.1.2 Regulated Vegetation Endangered/Of Concern RE

Figure 5.2 shows the State Vegetation Management Regional Ecosystem mapping. The site contains Category B – remnant: Of Concern RE 12.3.11. The occurrence of this RE at the edges of the south-eastern boundary along Eprapah Creek covers a total area of approximately 1,200 m^2 and is incorporated into public open space on development concept plan such that no regulated vegetation will be cleared.

The State Development assessment provisions – State Code 16: Native vegetation clearing under the *Planning Act 2016*, for a *material change of use and/or reconfiguring a lot for which there will be no clearing* [of regulated vegetation] *as a result of the material change of use or reconfiguring a lot* require that the use is subject to provisions set out in Table 16.9 of the code. The performance outcome is that 'clearing as a result of a material change of use or clearing as a result of reconfiguring a lot does not occur'.

The proposed development does not directly impact any regulated vegetation. As such, there is no applicable purpose or code to be assessed in respect to the VM Act.

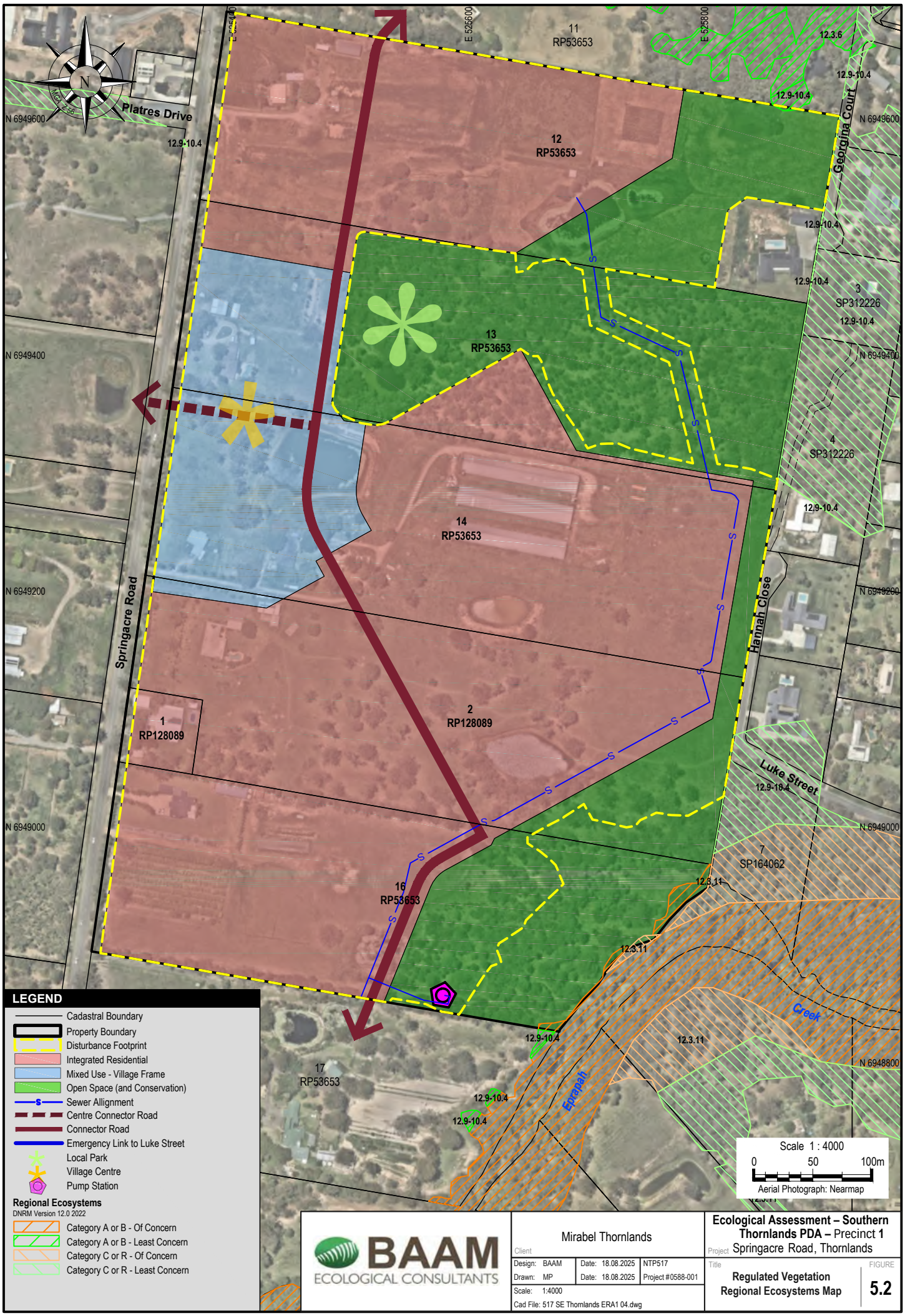
5.1.3 Regulated Vegetation – intersecting a watercourse

There are three defined watercourses mapped as occurring within the study area boundary (**Figure 5.2**). The State Development assessment provisions – State Code 16: Native vegetation clearing under the *Planning Act 2016*, for a *material change of use and/or reconfiguring a lot for all other purposes*, require that the use is subject to provisions set out in Table 16.8. The performance outcome for clearing associated with watercourses and drainage features is to:

"*maintain the composition, structure and function of the regional ecosystem associated with the watercourse and/or drainage feature to protect all of the following:*

1. *bank stability by protecting against bank erosion;*
2. *water quality by filtering sediments, nutrients and other pollutants;*
3. *aquatic habitat;*
4. *terrestrial habitat."*

There is no regulated vegetation mapping intersecting a watercourse proposed for removal by the development.



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Scale: 1:4000

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Title: Regulated Vegetation Regional Ecosystems Map

FIGURE 5.2

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5.1.4 High Ecological Significance Wetlands

A very small portion (about 100 sqm) of the High Ecological Significance Wetland associated with Eprapah Creek is mapped as occurring on the south-east boundary of the study area (see **Figure 4.1**), which is to be retained within public open space.

The State Development assessment provisions – State Code 16: Native vegetation clearing under the *Planning Act 2016*, for a *material change of use and/or reconfiguring a lot for all other purposes* require that the use is subject to provisions set out in Table 16.8. The performance outcome for clearing associated with wetlands is for no clearing of regulated vegetation within 100 m of a wetland. The proposed development layout does not impact any regulated vegetation within 100 m of a wetland.

5.1.5 Wildlife Habitat – Endangered or Vulnerable species

Within the study area, no mapped Wildlife Habitat – endangered or vulnerable species would be removed for development. The wildlife habitat modelling for this location is for Wallum Froglet *Crinia tinnula*, which is not a species supported by the habitats present within the Study Area (see **Appendix F**).

Although the species is not expected to occur, design has sought to avoid the mapped habitats wherever practical as shown on **Figure 5.1**

5.1.6 Wildlife Habitat – Special Least Concern species

Special least concern species for the location are Short-beaked Echidna *Tachyglossus aculeatus* and Platypus *Ornithorhynchus anatinus*.

There is no suitable riparian habitat for Platypus within the study area, although the species is known to be present in the adjacent Eprapah Creek.

There is some modelled habitat for Short-beaked Echidna (refer **Figure 5.1**) that would be removed for the proposed development. Short-beaked Echidna is a wide-ranging, common species which utilises a variety of habitats from rainforest through to arid lands. No evidence of their presence was recorded by the site investigations, although the species is expected to be present in the local landscape. The species would not be reliant on the impacted areas, and it is not expected that the development would impact species persistence in the local area. The proposed habitat configurations and restoration activities will provide ongoing habitat and habitat linkages for Short-beaked Echidna. There is no significant impact expected for this species as a result of the development.

5.2 FLORA

Results of the Wildlife online search (**Appendix A**) for historical threatened flora species records within a 5 km radius of the study area form the target species list for the likelihood of occurrence assessment (**Appendix F**). The assessment considered known habitat requirements for each species, the results of field searches, and the availability and quality of habitats of the study area to determine the likelihood of each species occurring. Many of the historical records are associated with habitats that do not occur within the study area and are relevant to habitats associated with forested slopes of Mount Cotton and surrounds or the unique sandy coastal habitats of the Redland Coast.

The assessment determined that only one CEEVNT flora species is present, a planted *Macadamia integrifolia* individual detected next to a residential dwelling on Lot 14, which is not relevant under the NC Act as it is not “in the wild”. No other listed species were observed and no CEEVNT flora species are considered likely to be present within the study area.

The study area does not occur within a high-risk area on the State's Protected Plants Flora Survey Trigger Map (**Appendix B**), and no naturally occurring protected plants were detected during field investigation; therefore, an application to clear native vegetation will not be required under the NC Act.

5.3 FAUNA

A search of the Wildlife Online database provided a list of NC Act CEEVNT fauna species that have previously been recorded within a 5 km radius of the study area (**Appendix A**). Each of the relevant species (excluding those associated with marine environments) has been addressed in the likelihood of occurrence assessment provided in **Appendix F**.

Desktop assessment determined a number of CEEVNT species are considered likely, or with potential, to occur in habitats of the study area. Field assessment subsequently focused on detecting their presence, signs of their presence and occurrence and quality of potential habitat. Field results were applied to updating the likelihood of occurrence assessment. The NC Act CEEVNT species that are known to occur, considered likely to occur, or to have potential to occur within habitats of the study area are listed and described in **Table 5.3.**

The migratory Satin Flycatcher *Myiagra cyanoleuca*, a Special Least Concern species under the NC Act, was recorded in the eastern forested portion of Lot 13.

A large owl pellet identified as from Powerful Owl (**Photo 5**), a threatened species under the NC Act, was found beneath an especially large and isolated Scribbly Gum located to the west of Dam 1 on the southern lot (**Figure 3.2** and **Photo 6**). This species in known from records within the local landscape and this finding indicates it occurs, most likely foraging, within the study area. While there are occasional hollows of a size suitable for Powerful Owl breeding, further searching of the study area did not find any Powerful Owl roosting or nesting sites.

Impacts of the proposed development on each of the known, likely or potentially occurring threatened species are summarised as follows:

5.3.1 South-eastern Glossy Black-Cockatoo *Calyptorhynchus lathami lathami (Vulnerable)*

Suitable Glossy Black-Cockatoo foraging species (She-oaks) are present in the forested portions of the study area on Lots 13 and 16, and in some areas, a preferred food species *Allocasuarina littoralis* dominates the subcanopy. The habitat in the south-east of the study area is modelled by the State as core habitat for the species, though this was found to be mostly dominated by exotic slash pines. The study area supports large eucalypt trees with suitably sized hollows for Glossy Black-Cockatoo nesting. The field survey included targeted searches for Glossy Black-Cockatoos and evidence of feeding activity (orts), but failed to detect any sign of the species. Glossy Black-Cockatoos are, however, known to occur in the area and have been recently recorded (2021) 300 m east of the study area, such that there is potential for occurrence within the study area.

Some hollow-bearing paddock trees suitable with potential for nesting are currently within the development footprint; however, the forested portions of the site, in which the greatest habitat values for the species are present, are intended to be retained. Revegetation of lands adjoining Eprapah Creek and revegetation of portions of the designated open space will also contribute to ongoing habitat values. As a result, no significant impact to the species is expected from the development. However, targeted surveys for nesting evidence should be carried out prior to any civil works commencing, and particular care should be taken during development, and rehabilitation works during nesting periods between May and June.

Table 5.3: Conservation significant terrestrial fauna species that are known, are likely, or have potential to occur within or immediately adjoining the subject site

Abbreviations: NCA = status under the *Nature Conservation Act 1992* (Queensland); **RCC** = Locally significant species (Planning Scheme Policy 1); **WN** = Queensland Department of Environment and Science WildNet database search within a 5 km radius of the study area; CE = Critically Endangered; E = Endangered; V = Vulnerable; NT = Near Threatened; M = Migratory; S = Special Least Concern (Migratory or culturally significant); LC = Least Concern; LS = Local significance; X = species has been recorded within the database search area (WildNet) or occurrence is predicted by Protected Matters Search Tool if suitable habitat is present (PM).

Likelihood of occurrence categories: Known - from other surveys (BAAM, other consultancies, databases), species recorded onsite; **Likely** to occur – species not known to occur onsite but the site is within the known range of the species, potentially suitable habitat is present and there are either database records for the local region or knowledge of the species occurrence suggests it may occur as a resident or visitor; means 'high potential' or good habitat is present but no species were observed onsite; **Potential** to occur – the site is within the known range of the species and potentially suitable habitat is present but there are no database records for the local region and/or it is a rare, erratic or poorly known species; means 'low potential' or habitat for species is not definitive; **Unlikely** to occur – no suitable habitat present and/or the site is outside of the known range of the species.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Birds						
Accipiter novaehollandiae	Grey Goshawk	LC	LS	X	Wooded habitats, sparse in region - concentrated on Mt Cotton – Sheldon (RCC Scheme Policy 1).	**Potential.** There are wooded habitats on site that may be suitable for the species, and it may rarely visit the study area. There are two local records within 5 km of the study area.
Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	V	LS	X	Occupies coastal woodlands and drier forest areas, open inland woodlands or timbered watercourses where its main food trees (She Oaks) are common. Requires large hollows for nesting (DCCEEW 2022a).	**Potential.** The species is known in the wider landscape and there are two recent (2021) records from 300 m east of the study area. The habitat in the south-east of the study area is modelled by the state as core habitat for the species. Much of this habitat was found to be dominated by Slash Pine. Forage species (*Allocasuarina* spp.) are present and dominate much of the subcanopy in the forested areas and there are trees with large hollows that may be suitable for nesting; however, no birds or feeding evidence (orts) were observed during the survey despite targeted searches.
Ephippiorhynchus asiaticus	Black-necked Stork	LC	LS	X	Wetlands, rare visitor (RCC Planning Scheme Policy 1).	**Potential.** Farm dams with cleared edges provide potentially suitable foraging habitat. There have been two records of the species within 5km of the study area since 1980. It may be a rare visitor.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Hirundapus caudacutus	White-Throated Needletail	V		X	In Australia, the White-throated Needletail is almost exclusively aerial, from heights of less than 1 m up to more than 1000 m above the ground. Probably recorded most often above wooded areas, including open forest and rainforest, and may also fly between trees or in clearings, below the canopy, but they are less commonly recorded flying above woodland. Has been recorded roosting in trees in forests and woodlands, both among dense foliage in the canopy or in hollows (DotE 2023d).	**Potential.** This aerial species may occur as a flyover while foraging. No suitable roosting habitat present.
Ninox strenua	Powerful Owl	V	LS	X	Open forests and woodlands and sheltered gullies in wet forests with dense understoreys, especially along watercourses. Sometimes found in open areas near forests such as farmland, parks and suburban areas. Needs old growth trees to nest (Australian Museum 2023).	**Known.** Evidence of this species was detected during the field assessment. Portions of the study area hold suitable breeding habitats and there are habitats, including hollow bearing trees, suitable for its prey species.
Frogs						
Adelotus brevis	Tusked Frog	V	LS	X	Found through a broad range of habitats covering open grasslands, large swamps, low woodlands, dry and wet sclerophyll forests and rainforest, in close proximity to slow-moving creeks. Rarely occur above 400m asl. Also recorded in disturbed habitat (ALA 2023).	**Likely.** This species can persist in highly modified environments, and the dams provide potential breeding habitats. There are records of this species within the wider landscape, including from 1 km east of the study area in habitats associated with Eprapah Creek. The state maps the bushland in the south-eastern corner and part of the bushland in the central eastern portion of the study area as habitat for the species. Targeted searches during suitable weather conditions did not record the species as present within the Study Area
Mammals						
Phascolarctos cinereus (SEQ Bioregion)	Koala (SEQ Bioregion)	E		X	Eucalypt forest and woodland, feeding mostly on eucalypts (DAWE 2022), but also known to feed on *Melaleuca, Lophostemon* and *Angophora* species.	**Known.** The study area supports suitable forage, shelter and breeding resources for Koala and the species is well known from the local landscape. Evidence of Koala presence was recorded in the study area.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Non-Threatened Terrestrial Migratory Species						
Monarcha melanopsis	Black-faced Monarch	S		X	Mainly occurs in rainforest ecosystems, including semi-deciduous vine-thickets, complex notophyll vine-forest, tropical (mesophyll) rainforest, subtropical (notophyll) rainforest, mesophyll (broadleaf) thicket/shrubland, warm temperate rainforest, dry (monsoon) rainforest and (occasionally) cool temperate rainforest. Also occurs in wet-sclerophyll forests, especially in gullies with a dense, shrubby understorey, as well as in dry sclerophyll forests and woodlands, often with a patchy understorey (DotE 2023a).	**Potential.** Potential to occur as a summer visitor to forested habitats in the study area, particularly the more densely vegetated areas.
Myiagra cyanoleuca	Satin Flycatcher	S		X	Mostly found in eucalypt forest, favouring wet forests, moist gullies and watercourses. They also occur in eucalypt woodlands with open understorey and grass ground cover, are generally absent from rainforest, and feed on arthropods (mainly insects) and, occasionally, seeds. Generally, the Satin Flycatcher forages singly or in pairs high in the canopy and sub-canopy (DotE 2023o)	**Known.** Suitable habitat is present, and an individual was sighted during the field survey.
Rhipidura rufifrons	Rufous Fantail	S		X	Occurs mainly in moist habitats, including mangroves, coastal scrubs, and wet sclerophyll forests, often along watercourses and in gullies dominated by eucalypts, usually with a dense shrubby understorey often including ferns. They also occur in subtropical and temperate rainforests. Occasionally occur in secondary regrowth, following logging or disturbance in forests or rainforests. When on passage, they are sometimes recorded in drier sclerophyll forests and woodlands (DotE 2023b).	**Known.** Likely an occasional summer visitor. Observed during field survey in the vegetated portion of Lot 16.

5.3.2 White-Throated Needletail *Hirundapus caudacutus (Vulnerable)*

This species is likely to only occur as a transient, flyover and the project would not be of relevance to its future presence or persistence in the local landscape. No significant impact is predicted as a result of the development.

5.3.3 Powerful Owl *Ninox strenua (Vulnerable)*

Given the existing local records associated with the Eprapah Creek riparian corridor and presence of large hollow-bearing trees suitable for nesting and sheltering arboreal mammal prey species, it is expected that Powerful Owl would utilise the study area for foraging. The habitat in the south-east of the study area is modelled by the State as core habitat for the species.

A large owl pellet consistent with Powerful Owl was found at the base of a Scribbly Gum west of the dam in the southern lot. As there was a lack of vegetative cover immediately surrounding the tree, it is unlikely that it would be utilised for Powerful Owl nesting; however, the multiple scratches observed on the trunk suggest the tree would support key prey species such as Brushtail Possums and Gliders.

Powerful Owls are known to be particularly sensitive to disturbance around nests which can lead to abandonment of young or nesting sites for the breeding season (Birdlife 2021). The forested portions of the study area that contain the most suitable nesting sites for the species are intended to be retained as per the development concept plan; however, targeted surveys for nesting evidence should be carried out, and particular care should be taken during development and rehabilitation works during nesting periods (late autumn to mid-winter in the Redlands) if nesting activity is recorded, to avoid any potential disturbance.

The site does hold large trees with potential for breeding, though the open woodland nature limits the likelihood of the site being used. This species prefers to breed in well sheltered and more densely vegetated environments, where the presence of aggressive bird species is lower.

Powerful Owls are adaptable to urbanised environments provided there are sufficient foraging and breeding resources available, and nest sites are protected from human disturbance. The Eprapah Creek corridor adjacent to the study area and the conserved lands identified on the development concept plan are considered to be suitable support any locally occurring Powerful Owls and, provided appropriate disturbance avoidance measures are applied around potential nest sites during the breeding season, no significant impact is expected to occur as a result of the development.

5.3.4 Tusked Frog *Adelotus brevis (Vulnerable)*

Tusked frog can persist in highly modified environments, and the dams provide potential breeding habitats, although the species is more likely to occur in the adjoining lands where suitable waterway habitats have been retained. Pre-clear surveys should be undertaken prior to disturbance to determine presence of the species and fauna spotters should be engaged to relocate Tusked Frogs if they occur. Construction and operation of the development must protect downstream habitats and water quality.

While there is potential for Tusked Frog to occur, effects of the development would not represent a significant impact on local populations of the species.

5.3.5 Koala Phascolarctos cinereus (Endangered)

Koala is known to occur in the local area and across the region. The study area supports Koala habitat including the forested portions of the site and paddocks that support preferred food tree species such as Blue Gum, Scribbly Gum, and Swamp Mahogany. Characteristic Koala scat and scratches were found at multiple locations across the study area (**Figure 3.1**), and a female Koala and joey were recorded on the north-western edge of the forested area on Lot 13.

In respect to compensatory/mitigation actions, the proposed actions include the rehabilitation and restoration of retained open space and conservation lots within which maintenance and establishment of habitats suitable for Koala foraging, breeding and dispersal are a priority. These areas have been located to ensure that Koala habitats remain safely connected. Collecting seed from the old growth trees from the study area prior to site development for later planting into the retained areas would ensure the endemicity of the resources these trees would provide for Koalas and other local native fauna species.

Current dispersal habitat comprised of scattered food trees and open space within the paddock areas will be impacted by the development with much of this area replaced by high and medium density residential development and roadways. Safe movement opportunities for Koala through these components of the landscape will be restricted due to habitat tree removal, increased traffic and risk of vehicle strike, and potential for increased disturbance and/or predation by domestic dogs.

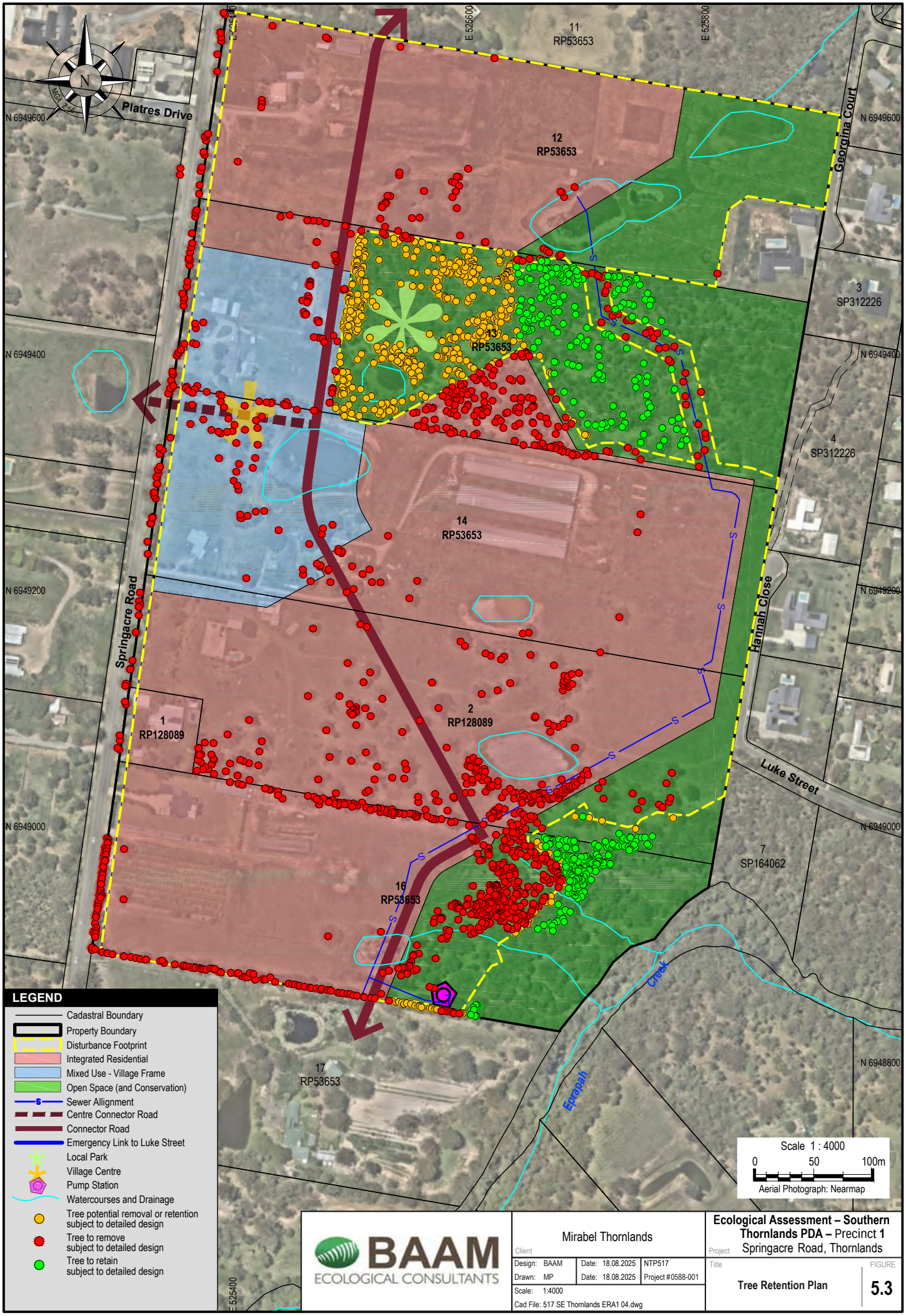
NJKHTs will be removed within the development footprint (to be confirmed following finalisation of the disturbance footprint in subsequent applications). We note there are additional trees retained which have not been plotted for this assessment.

While there is no trigger for formal offsetting for the cleared vegetation under the Queensland Environmental Offsets framework, there is sufficient land (including cleared land, and currently treed land that will be cleared for related civil works and drainage but can be subsequently rehabilitated) proposed for inclusion within open space and greenspace to facilitate compensatory planting of Koala food trees at a ratio of 3:1 in a configuration that would provide habitat connection between Eprapah Creek and core Koala habitat to the north. In addition, where existing vegetation is retained, these locations will be the subject of rehabilitation actions which include the removal of exotic species.

Sections 10 and 11 of the *Nature Conservation (Koala) Conservation Plan 2017* prescribe requirements that must be met when clearing Koala habitat. These include sequential clearing and engagement of a Koala spotter. These clearing requirements are independent to the Koala habitat planning controls of *Planning Regulation 2017* (which do not apply to the application), which means they must be complied with irrespective of any approvals or exemptions offered under other legislation.

5.4 ANIMAL BREEDING PLACES

Under the NC Act, activities that require tampering with a native animal breeding place must be undertaken in accordance with an approved Species Management Program (SMP). As the time and season of proposed works commencing is unknown, an ecologist or qualified fauna spotter/catcher should inspect all vegetation immediately prior to clearing (maximum 14 days), and if any confirmed active breeding places are recorded and need to be avoided or removed, an SMP application must be submitted to DETSI for approval. Additionally, a targeted Powerful Owl and Glossy Black-Cockatoo nesting survey will need to be undertaken during breeding season (May-June) regardless of proposed works occurring outside of this time frame.



BAAM ECOLOGICAL CONSULTANTS

Client: Mirabel Thornlands

Project: **Ecological Assessment – Southern Thornlands PDA – Precinct 1** Springacre Road, Thornlands

Design: BAAM	Date: 18.08.2025	NTP517
Drawn: MP	Date: 18.08.2025	Project #0588-001

Scale: 1:4000

Cad File: 517 SE Thornlands ERA1 04.dwg

Title: **Tree Retention Plan**

FIGURE **5.3**

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5.5 WEEDS OF STATE SIGNIFICANCE

A number of weed species listed as restricted, Category 3 restricted invasive plants under the Queensland *Biosecurity Act 2014* were recorded from the study area, including:

- Ground Asparagus *Asparagus aethiopicus*
- Lantana
- Fireweed *Senecio madagascariensis*
- Broad-leaved Pepper Tree *Schinus terebinthifolius*
- Chinese Celtis *Celtis sinsensis*
- Camphor Laurel *Cinnamomum camphora*

Most of these were restricted to the more disturbed areas in the forested portion of Lot 13, along with various other non-native plants.

In accordance with the *Biosecurity Act 2014*, Category 3 restricted matters must not be distributed (i.e. released into the environment) unless the distribution or disposal is authorised in a regulation or under a permit. More generally, landowners are responsible for taking all reasonable and practical steps to minimise the risks associated with invasive plants under their control. Contractors appointed to the project will also need to implement management controls and disposal in accordance with the *Biosecurity Act 2014*. Restoration works on retained habitats will remove weeds of state significance.

5.6 WATERWAY BARRIER WORKS

The watercourse mapped in the north-east of the study area (Lot 12) (see **Figure 5.1**) is identified as a Queensland waterway for waterway barrier works. Under State Code 18 of the State Development Assessment Provisions (SDAP) Guideline, development involving constructing or raising of waterway barrier works in fish habitats must:

1. Maintain fish movement and connectivity throughout waterways and within and between fish habitat;
2. Maintain the health and productivity of fisheries resources and fish habitat;
3. Maintain the community and fishing sectors' use of the area and access to fisheries resources;
4. Provide adequate fish passage including a fish way, if necessary;
5. Avoids impacts or, where the matters of state environmental significance cannot be reasonably avoided, impacts are reasonably minimised and mitigated; and
6. Does not result in a significant residual impact on a matter of state environmental significance unless the significant residual impact is acceptable, and an offset is provided.

The subject waterway has three separate impoundments which currently act as barriers or severe impediments to fish movement. The proposed actions will not result in any loss of existing fish passage, and no significant residual impacts are identified.

5.7 QUEENSLAND ENVIRONMENTAL OFFSET POLICY

There are no matters for which offsets are required under the Queensland Environmental Offsets framework identified by this assessment. A detailed offset review will occur at all operational works stages.

6.0 SOUTHERN THORNLANDS PDA INTERIM LAND USE PLAN (ILUP)

The Southern Thornlands PDA (the PDA) was declared on 4 April 2025. The PDA area is identified in **Snip 1** and covers approximately 896 hectares of land in the Redland City Local Government area.

The Southern Thornlands PDA Interim Land Use Plan (ILUP), prepared under Section 38 of the ED Act, applies to land within the declared Southern Thornlands PDA.

The ILUP was made by the MEDQ and took effect on commencement of the declaration regulation for the Southern Thornlands PDA. The declaration regulation states that the ILUP will expire on 4 October 2026, unless the finalised PDA development scheme takes effect earlier.

The stated vision of the ILUP establishes the overall outcomes to be achieved in the PDA and are:

a. seek to achieve the purpose of the ED Act for the PDA, and
b. provide the basis for the PDA development requirements.

Of specific relevance to this assessment is Section 4.2 of the ILUP which identifies the Study Area as Precinct 1. The ILUP includes (section 4.2.1.1):

Precinct 1 establishes a new neighbourhood with a positive identity that responds to site characteristics, setting, landmarks and views. The precinct comprises a range of residential uses, dwelling types and centre uses connected by a clearly legible street and open space network that incorporates high quality streetscapes and urban design. The precinct provides diverse housing, catering for the changing needs of the Redlands community including housing that is affordable, accessible and enables ageing in place and intergenerational living.

Key elements of the precinct are shown in **Snip 2**.

As part of the EDQ Information Request (IR) (Dated; 30 July 2025), further information and specific addressing of Section 4.1.5 of the ILUP was requested a shown in **Snip 3** below:

Ecological Matters

1. An amended Ecological Assessment Report (EAR) addressing the Southern Thornlands PDA Interim Land Use Plan's (ILUP) "avoid- mitigate-offset hierarchy" and justify encroachment into mapped areas of MSES and/or the ILUP identified Habitat value investigation area. Specifically, the amended report should provide:

   a. Assessment of requirements of the ILUP Section 4.1.5 Environment and referenced State Codes and Policies.

   b. Accurate representation of trees to be removed for the development in areas mapped as MSES and in proposed retention areas, including the Eprapah Creek corridor.

   c. Detailed analysis of potential impacts on ground rectified values within the ILUP's Habitat value investigation area and Regional ecological corridor (Eprapah Creek) to demonstrate the suitability of a neighbourhood park.

   d. An assessment of the avoid-mitigate-offset hierarchy.

Snip 3. EDQ Information Request – Ecological Matters..

The following addresses the requested information.

6.1 RESPONSE TO EDQ IR 1 A.

In the following, the requirements of ILUP section 4.1.5 are provided in ***italics***.

***1. Development demonstrates location, design, construction and operation that avoids, or where this is not reasonably possible, minimises and mitigates adverse impacts on*:**

a. the environmental values of receiving waters;

This report does not specifically address the proposed development water quality as the application is for a preliminary approval. It is understood that all contemporary water quality objectives will be met with detailed design and modelling undertaken during the operational stages.

The proposed development footprint has been designed and located to avoid or minimise adverse impacts on environmental values of receiving waters. No loss of State significant waterways is proposed.

b. the habitat values of significant vegetation (including in waterways)

The ILUP defines Significant vegetation as-

'Significant vegetation' means all vegetation, except those listed as pest vegetation by State or local government, including its root zone that:

a. is significant in its ecological value at local, state or national levels

b. maintains biodiversity

c. preserves natural landforms

d. contributes to the character of a landscape

e. has cultural or historical value, or

f. has amenity value.

Condition 2b refers the reader to the State code 16: Native vegetation clearing (SC 16), which does not define significant vegetation. We note, for the purpose of this code, vegetation is limited to vegetation where it is identified as assessable under the *Planning Regulation 2017*.

It refers to vegetation being vegetation as per the VMA. Section 8 of the VMA defines vegetation as shown below in **Snip 4**.

8 What is vegetation

Vegetation is a native tree or plant other than the following—

(a) grass or non-woody herbage;

(b) a plant within a grassland regional ecosystem identified in the VM REDD as having a grassland structure;

(c) a mangrove.

Snip 4: definition of Vegetation under the VMA.

The VMA, also does not define 'Significant Vegetation'.

Figure 5.2 shows the State Vegetation Management Regional Ecosystem mapping. The Study Area (site) contains Category B – remnant: Of Concern RE 12.3.11. The occurrence of this RE at the edges of the south-eastern boundary along Eprapah Creek covers a total area of approximately 1,200 m^2 and is incorporated into public open space on development concept plan, such that no regulated vegetation will be cleared.

SC 16: identifies that native vegetation clearing under the *Planning Act 2016*, for a *material change of use and/or reconfiguring a lot for which there will be no clearing* [of regulated vegetation] *as a result of the material change of use or reconfiguring a lot* require that the use is subject to provisions set out in Table 16.9 of the code. The performance outcome is that 'clearing as a result of a material change of use or clearing as a result of reconfiguring a lot does not occur'.

The proposed development does not impact any regulated vegetation. As such, there is no applicable purpose or code to be assessed in respect to the VM Act. All clearing works are within lands identified by the Vegetation Management Map (refer **Figure 5.2**) as Category X under the VMA. Clearing Category X areas on freehold land is exempt clearing work under the vegetation management framework.

Matters of state environmental significance are prescribed environmental matters under the *Environmental Offsets Regulation 2014* that require an offset when a prescribed activity will have a significant residual impact on the matter. A matter of state environmental significance is any of the following matters:

1. regional ecosystems under the *Vegetation Management Act 1999* that:
   a. are endangered regional ecosystems; or
   b. are of concern regional ecosystems; or
   c. intersect with a wetland shown on the vegetation management wetlands map; or
   d. contains an area of essential habitat on the essential habitat map for an animal that is critically endangered wildlife, endangered wildlife or vulnerable wildlife or a plant that is critically endangered wildlife, endangered wildlife or vulnerable wildlife; or
   e. are located within the defined distances stated in the *Environmental Offsets Policy 2014* from the defining banks of a relevant watercourse or drainage feature as shown on the vegetation management watercourse and drainage feature map; or
   f. are areas of land determined to be required for ecosystem functioning ('connectivity areas'); or
2. wetlands in a wetland protection area or wetlands of high ecological significance shown on the Map of referable wetlands under the *Environmental Protection Regulation 2019*; or
3. wetlands and watercourses in high ecological value waters as defined in the *Environmental Protection (Water and Wetland Biodiversity) Policy 2019*, schedule 2; or
4. designated precincts in strategic environmental areas under the Regional Planning Interests Regulation 2014; or
5. threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the *Nature Conservation (Wildlife) Regulation 2006*; or
6. protected areas under the Nature Conservation Act 1992, excluding coordinated conservation areas; or
7. highly protected zones of state marine parks under the Marine Parks Act 2004; or
8. fish habitat areas under the *Fisheries Act 1994*;

9. waterways that provide for fish passage under the Fisheries Act 1994 if the construction, installation or modification of waterway barrier works carried will limit the passage of fish along the waterway; or
10. marine plants under the *Fisheries Act 1994*; or
11. legally secured offset areas.

The proposed clearing would not have a significant residual impact on any of the above matters, and the proposed restoration of disturbed areas outside of the development footprint would further mitigate the impacts. MSES values are covered in detail in **Section 5.0**.

The primary value identified by the ILUP definition is significant ecological value at the local council level. Matters of Local Environmental Significance (MLES) are addressed in **Section 7.0**. There is proposed disturbance to vegetation mapped as MLES, though our assessment has not identified any significant impacts which would trigger environmental offsetting under the ILUP as the proposed impacts are to be mitigated through restoration plantings and enhancement of vegetation linkages in the retained areas.

From an ecological perspective, none of the vegetation clearing is considered to comprise significant vegetation in respect to its role towards:

- maintains biodiversity
- preserves natural landforms
- contributes to the character of a landscape
- has cultural or historical value, or
- has amenity value.

c. the ability for fauna to move along ecological corridors and across infrastructure

The development has been designed to provide for fauna movement between the retained habitats and external lands. The proposed revegetation of the eastern linkage will facilitate Koala movement between the Eprapah Corridor and Core Koala Habitats to the north of the site. This linkage is further enhance by vegetation retained on lands adjoining the site.

d. *the ability for fish and other marine animals to move unimpeded along waterways*

There is no loss of any fish movement as a result of the proposed development.

2. Impacts on significant vegetation are avoided where possible or minimised and mitigated.

As detailed above, the proposed development is not viewed as resulting in the loss of significant vegetation. There is a loss of vegetation which has been mapped as MLES. The proposed impacts have been minimised within design where practical whilst meeting density requirements. Impacts are proposed to be mitigated through restoration of the retained habitats under a detailed rehabilitation management plan during the RoL and operational works phases.

3. Development:

a. does not cause an unacceptable impact on the habitat requirements of threatened and endangered native species including the Koala.

The proposed development does not seek to remove any Core Koala Habitats. There is a loss of Koala habitat trees within the development area, and the development will result in an overall reduction of koala habitat values. There is restoration activities proposed which will provide for ongoing connection between Koala habitats which are retained on and off the site.

b. incorporates appropriate buffers to ensure adverse impacts on areas containing matters of state or national environmental significance or adjoining conservation areas are managed.

There are no impacts to matters of state or national environmental significance or adjoining conservation areas proposed.

c. supports ecological connectivity and avoids fragmentation of areas of environmental significance to ensure ecological processes and areas of significant habitat as well as safe koala movement is maintained or enhanced.

The development has been designed to provide for ongoing habitat connectivity and avoids fragmentation of areas of environmental significance. Safe Koala movement is provided through the proposed open space connections which provide direct connection with the adjoining habitats.

d. seeks to retain significant vegetation for street trees and feature trees in streets, public realm and open space areas

The required civil works do not facilitate the retention of vegetation within the development footprint. The proposed restoration activities will provide mitigation of the loss. The finalised landscape will be subjected to detailed landscape plans which will include the installation of landscape trees and street trees.

e. involving the constructing or raising of waterway barrier works in a fish habitat avoids impacts and maintains connectivity throughout waterways and between fish habitats.

No disturbance or loss of fish habitat is proposed.

6.2 RESPONSE TO EDQ IR 1 B.

The proposed development has undergone further design considerations to establish the maximum extent of disturbance required for the proposed development. **Figure 5.3** has been updated to provide an accurate representation of trees to be removed and where potential for retention is identified. This refinement has allowed for an improved understanding of the proposed impacts.

6.3 RESPONSE TO EDQ IR 1 C.

The impacts to the Habitat value investigation area and Regional ecological corridor (Eprapah Creek) have been further detailed within this report. **Appendix G** provides the details of the extant habitats in these locations. As shown by **Table 3.1,** these locations have been subjected to prior disturbances and comprise a mix of regrowth native vegetation and exotic species (refer **Appendix G**).

6.4 RESPONSE TO EDQ IR 1 D.

EDQ IR 1 D requires an assessment of the avoid-mitigate-offset hierarchy. The ILUP does not have any specific guidance on this aspect of assessment.

The proposed development design has sought to avoid ecological impacts within the Precinct 1 Habitat Value Investigation area. A necessary sewer connection is proposed through this area; with its alignment subject to detailed design to minimise habitat loss, while accommodating overall design constraints. Following installation, the area will be rehabilitated in to maximise habitat restoration of this area.

We recommend incorporating a natural bush track along the sewer alignment to facilitate pedestrian connectivity between the northern and southern precincts. We also recommend incorporating other informal bush tracks through the habitat value investigation area, weaving through gaps in vegetation to facilitate and formalise passive recreation opportunities.

The western portion of the investigation area is designated as a 'Nature Play Park'. Preliminary designs have sought to minimise ecological disturbance while enabling nature-based recreational activities within a predominantly bushland setting of a previously disturbed area (refer **Table 3.1 and Appendix G**). The recreation space will be sensitively integrated with existing vegetation, avoiding high-value trees through detailed design where possible. This formalisation of recreational use is anticipated to reduce ad hoc disturbances that typically occur when people access retained habitat areas informally.

The proposed nature play areas will be established where existing motorcross uses have reduced the extant habitat values and where high levels of exotic weeds occur. Restoration activities post works will mitigate the impacts.

This assessment has identified there are no values being removed which trigger any State environmental offsets. No Loss of mapped Core Koala habitat or remnant vegetation is proposed. We note that the mapped wildlife habitat is not a prescribed environmental matter within an urban area under the *Environmental Offsets Act 2014*.

7.0 MATTERS OF LOCAL ENVIRONMENTAL SIGNIFICANCE

The PDA development approval is not subject to assessment under the local government planning scheme as the ILUP prevails to the extent of any inconsistency with the Redland City Plan 2018. If there is a conflict between the ILUP and a planning instrument or assessment benchmarks prescribed by regulation under the Planning Act or another Act, the ILUP prevails to the extent of any inconsistency.

Although the Redland City Plan 2018 is not required to be specifically addressed by the application, the following sections describe impacts on matters of local environmental significance for which the development should have regard. The following is provided to further inform on the extant ecologically values at the local government level.

Those matters that are matters of local environmental significance (MLES) on the subject lands are shown in **Figure 7.1** and include those mapped under the Environmental Significance Overlay and the Waterway Corridors and Wetlands Overlay.

7.1 ENVIRONMENTAL SIGNIFICANCE OVERLAY

The MLES Environmental Significance Overlay (**Figure 7.1**) is associated with and informed by the RCC mapped Koala habitat (including RE Remnant and Regrowth Koala Habitat and Urban Koala Habitat Trees).

Considering the development design and proposed mitigation responses, the removal of mapped MLES scattered around the site and proposed intrusion into the MLES on Lot 13 is unlikely to result in any significant impacts on Koala habitats or affect the persistence of the current suite of fauna species in the local landscape.

7.1 ENVIRONMENTAL SIGNIFICANCE OVERLAY CODE

The City Plan provides *Planning Scheme Policy 1 - Environmental Significance*, which identifies the relevant values of Environmental Significance that are MLES. For any material change of use the assessment benchmarks for assessable development within the Environmental Significance overlay is the Environmental Significance overlay code.

The stated purpose of the Environmental Significance Overlay Code is to manage development to avoid or minimise significant impacts on Matters of National, State and Local environmental significance. The purpose of the code is achieved through the following overall outcomes:

a) areas of high biodiversity or environmental significance are retained and protected;

b) development maximises the retention of native vegetation and significant habitat features;

c) development minimises the loss of koala habitat trees;

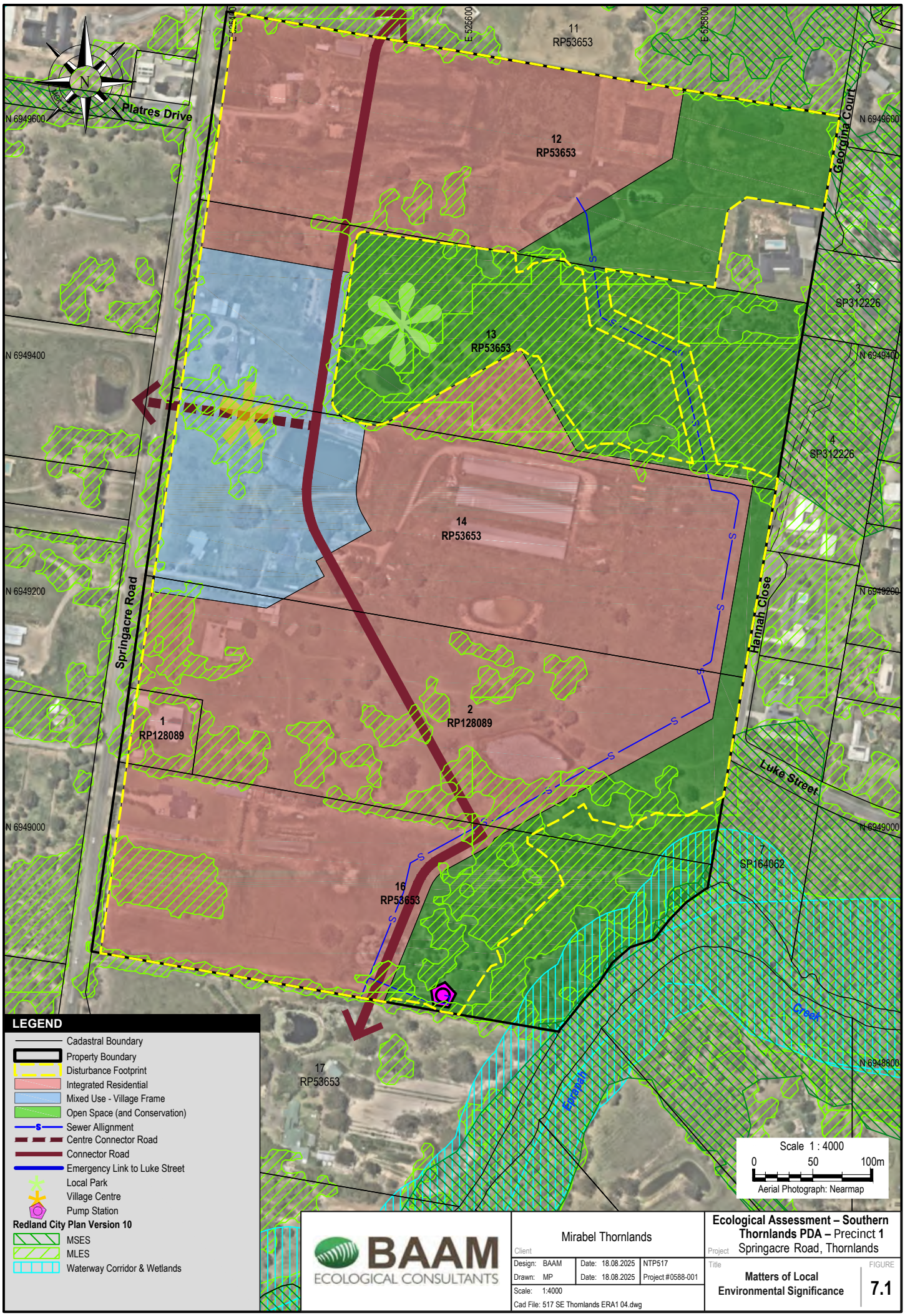
d) impacts on matters of state or local environmental significance are minimised and mitigated;

e) development does not cause substantial fragmentation of habitat areas;

f) opportunities for safe and viable wildlife movement within and between habitat areas are facilitated;

g) landscaping and planting is undertaken in a manner that contributes to the ecological values of the site; and

h) where they occur, significant residual impacts on matters of local environmental significance or another prescribed environmental matter in accordance with section 15(4) of the Environmental Offsets Act 2014, may need to be offset.



BAAM ECOLOGICAL CONSULTANTS

Client: Mirabel Thornlands

Project: **Ecological Assessment – Southern Thornlands PDA – Precinct 1** Springacre Road, Thornlands

Design: BAAM	Date: 18.08.2025	NTP517
Drawn: MP	Date: 18.08.2025	Project #0588-001

Scale: 1:4000

Cad File: 517 SE Thornlands ERA1 04.dwg

Title: **Matters of Local Environmental Significance**

FIGURE **7.1**

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Those outcomes relating to matters of national environmental significance have already been addressed and are not included in this assessment. Matters of state environmental significance are addressed in **Section 5.0**. The specific benchmarks for assessable development within the Environmental Significance Overlay Code are addressed in **Table 7.1.**

Table 7.1. Benchmarks for development that is accepted subject to requirements and assessable development – Environmental Significance Overlay Code

Performance Outcomes	Acceptable Outcomes	Response
For development that is accepted subject to requirements		
PO1 Development does not result in a significant reduction in the level or condition of biodiversity and ecological functions and processes in the locality.	**AO1.1** Compensatory planting is undertaken on-site that is equal in area to the area of the vegetation cleared.	N/A – the application is assessable development.
For assessable development		
Values to be protected		
PO2 Development does not result in a significant reduction in the level or condition of biodiversity and ecological functions and processes in the locality.	No acceptable outcome is nominated.	The site design has sought to retain the higher value habitat. There will be clearing of mapped MLES within the proposed urbanised portion of the study area due to the required civil works. It is proposed that the loss of native vegetation will be mitigated by planting of replacement trees within the open space and conservation areas to provide an overall net gain in the number of Koala trees within the development area. Planting of Koala trees within the currently cleared locations within proposed greenspace and retained regrowth and remnant vegetation will provide an overall improvement in direct habitat connections, which will have a net benefit for overall biodiversity and ecological functions and processes in the locality. Replacement plantings and their management should be prescribed within a detailed Vegetation Management Plan and the identified actions imposed as a condition of approval.
PO3 Development does not cause substantial fragmentation of habitat areas.	No acceptable outcome is nominated.	No substantial fragmentation is proposed. The provision of the designated linkages will provide an overall increase in vegetated habitat connections.

Performance Outcomes	Acceptable Outcomes	Response
PO4 Connections between habitat areas are retained, so that movement of key species and normal gene flow between populations is not inhibited or made less safe. Connections may include both continuous corridors and "stepping stone" patches and refuges.	No acceptable outcome is nominated.	Connections between existing/proposed retained habitats are provided within the design and will provide suitable fauna movement opportunities to, through and from the study area. The development design will not form a barrier to any species' movement or persistence in the local landscape.
Minimising and mitigating impacts		
PO5 Edge effects on retained habitat areas are minimised by providing the smallest possible perimeter to area ratio.	No acceptable outcome is nominated.	The areas to be retained are currently subject to edge effects and prior disturbances. Perimeter to area ratios are minimised to the smallest possible and the proposed layout provides setbacks to buffer retained habitats in the form of low-speed roadways to reduce potential for dumping of garden waste and weed seeds and propagules into the conservation areas.
PO6 The design, scale and intensity of development minimises impacts on retained habitat.	No acceptable outcome is nominated.	The scale and intensity of development has been determined in consideration of other design constraints and provision of setbacks from retained habitats.
PO7 Retained habitat is protected to ensure its on- going health and resilience, and to avoid degradation as a result of edge effects.	No acceptable outcome is nominated.	The retained vegetation and fauna movement corridor on the eastern boundary are to be generally rehabilitated/restored under a site-specific Rehabilitation Management Plan.
PO8 Barriers restricting the movement and dispersal of wildlife are removed, except where they are necessary for the safety of people or animals.	No acceptable outcome is nominated. Editor's note—Guidance on fencing design, fauna movement structure and the like is provided in Planning Scheme Policy 1 – Environmental significance.	There are no roads proposed in the eastern open space/conservation corridor. Direct connections with adjoining habitats are retained and unencumbered by barriers.
PO9 Development does not result in the introduction of pest species (plant or animal), that pose a risk to ecological integrity or disturbance to native fauna.	No acceptable outcome is nominated. Editor's note—Weed species are identified in Council's Pest Management Plan 2012 – 2016, Part B.	The weeds present on site and surrounding lands are all common in the local landscape. No new introduction of pest species (plant or animal) is expected or is likely to pose a risk to the area's ecological integrity. The Rehabilitation Management Plan will address weed removal within retained habitats.
PO10 Development minimises alterations to natural landforms, flow regimes, groundwater recharge and surface water drainage patterns.	No acceptable outcome is nominated.	There will be changes to the landform to accommodate the proposed uses. These changes have been designed to ensure the maintenance of flow regimes. Drainage has been designed to ultimately result in the outflows entering waterways in the same locations. Water from the site will be treated through

Performance Outcomes	Acceptable Outcomes	Response
		bio-basins and discharged into the waterways. Ecological flows will be maintained.
PO11 Development minimises potential for disturbance of wildlife as a result of noise, light, vibration or other sources.	No acceptable outcome is nominated.	There will be some disturbances during the construction phase, though these are unlikely to result in any long-term habitat abandonment. Retained habitats and corridor areas will be screened from operational lighting through the use of directional street lighting.
PO12 Roads and public access within and adjacent to areas of ecological significance are located and designed to avoid disturbance of ecological values or danger to wildlife.	No acceptable outcome is nominated.	There are no roads proposed to intersect the eastern corridor. The level of public access within the open space/conservation areas is yet to be determined; however, it will be restricted to passive recreational activities such as walking and cycling. There is a There is an emergency path link to Luke St which is not a road. This is a flat level path which would only have rare intermittent use and does not require treatments.
Corridors and enhancement planting		
PO13 Development contributes to the restoration of waterway or land based ecological corridors, where they would significantly enhance the health and resilience of habitat and wildlife on and near the site.	No acceptable outcome is nominated.	The site design has retained the core habitat values. Restoration actions as described in a Rehabilitation Plan will contribute to a functional habitat connection network between core habitats.
PO14 Corridors have sufficient width to maintain viable wildlife or habitat linkages.	**AO14.1** Ecological corridors have a minimum width of 100m.	The proposed layout design provides direct connections to and through the site. The proposed eastern corridor linkage has been located specifically for Koala movement and this location is further supported by vegetation in the adjacent rural residential areas to the east which supplement the corridor. The proposed habitat connections will accommodate those species expected to traverse through the study area and as a result the development will not pose a barrier to fauna movement.
PO15 Development incorporates opportunities for revegetation to enhance habitat condition, biodiversity and wildlife movement.	No acceptable outcome is nominated.	Outside of the retained bushland areas where habitat restoration will be undertaken as per proposed rehabilitation plan, an additional ~4 ha of currently mostly cleared farmland will be subject to landscape treatments that will connect the bushland habitats and provide connection to habitats external to the site. Landscaping will incorporate native species to maintain and establish biodiversity and wildlife movement options. The proposed actions will enhance habitat connections for Koalas and over

Performance Outcomes	Acceptable Outcomes	Response
		time glider species in particular, while retaining a portion of the current feeding and shelter resources for macropods.
PO16 Enhancement plantings and landscaping utilise endemic native species which replicate or complement the composition of the habitat it is connected to, unless this would increase bushfire risk.	No acceptable outcome is nominated. Editor's note—Guidance to assist applicants is contained within the Queensland Government's Regional Ecosystem Mapping	All revegetation will incorporate appropriate endemic native species to complement the composition of the habitat values of the landscape. All plantings will be reflective of the species that are endemic to the local area Regional Ecosystems.
PO17 Where clearing occurs, it is sequenced and undertaken in a manner that provides opportunities for fauna to vacate affected land.	No acceptable outcome is nominated. Editor's note—It is likely that a wildlife habitat management plan, prepared by an ecologist with suitable experience may be needed to address survival and ongoing access to habitat trees during construction and operation of the development.	All clearing will be conducted in accordance with the Qld Planning Regulation Schedule 11 benchmarks. All clearing will be progress towards retained and adjacent habitats to facilitate fauna movement into retained areas. All clearing will be conducted under the guidance of an appropriately experienced fauna spotter-catcher.
Offsets		
PO18 Where development results in, or is likely to result in, a significant residual impact on matters of local environmental significance, despite all reasonable on-site mitigation measures, the impact will be offset.	**AO18.1** Offsets are provided in accordance with offset arrangements set out in Planning Scheme Policy 1 – Environmental significance.	The proposed development will require removal of mapped MLES. Due to the proposed mitigation action of providing replacement plantings within retained habitats and corridor linkages between retained habitat patches and based on a review of the locally significant species listed in Appendix A of RCC City Plan 2018 Policy 1, there is no potential for any significant residual impacts on MLES.

7.2 WATERWAY CORRIDORS AND WETLANDS OVERLAY

A Waterway Corridor is mapped at the south-eastern corner of the study area along Eprapah Creek (**Figure 5.1**), which is categorised as a stream order 5 (major) waterway on RCC's online waterway mapping. The waterway corridor is entirely incorporated into retained vegetation such that there is no assessment required in regard to this MLES. It is proposed to undertake vegetation restoration works in this location to remove the invasive Slash Pine that currently dominates the canopy layer.

7.3 LOCALLY SIGNIFICANT SPECIES

Locally significant species are listed in Appendix A of the RCC Planning Scheme Policy 1. **Appendix F** provides the results of a likelihood of occurrence assessment, including the species listed in Planning Scheme Policy 1. Two locally significant species that do not overlap with NC Act listed species, Grey Goshawk *Accipiter novaehollandiae* and Black-necked Stork *Ephippiorhynchus asiaticus*, are considered as having potential to occur, though rarely (see **Table 5.3**). Since 1980, there have been two records of each species within 5 km of the study area.

7.3.1 Grey Goshawk Accipiter novaehollandiae

The ALA species profile for Grey Goshawk describes habitat for the species as rainforest, forests, open forest and thickly wooded watercourses. Its prey are primarily small bird species, which it hunts through trees and dense vegetation, and it will also take small mammals, reptiles and insects. A territorial pair will construct a stick nest lined with leaves high in a tree fork, and often re-use the same nest.

Areas of open forest are present within the study area and the thickly wooded watercourse of Eprapah Creek abuts the south-eastern boundary. According to the development concept plan, these habitats will be retained.

Planning Scheme Policy 1 provides criteria for determining the significant residual impact for MLES, which are addressed in **Table 7.2** for Grey Goshawk.

Table 7.2. MLES Significant Residual Impact Assessment for Grey Goshawk

Significant Residual Impact Criteria	Response
An action will have a significant residual impact on MLES if the action is likely to:	
(a) reduce the extent of the occurrence of a locally significant species;	The suitable habitat for Grey Goshawk in the study area is to be retained.
(b) lead to a decrease in the size of the local population of a locally significant species;	As the only suitable habitat for the species on-site would be retained the proposed development will not result in a decrease in the size of the local population of Grey Goshawk.
(c) fragment an existing population for a locally significant species;	The proposed development would not fragment any existing habitat.
(d) result in genetically distinct populations forming as a result of habitat isolation;	The proposed development would not fragment habitat for the species, and therefore would not cause any part of the local population to become isolated.
(e) result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species habitat;	Grey Goshawk is not listed as endangered or vulnerable under State or Commonwealth legislation.
(f) introduce disease that may cause a locally significant species population to decline;	There is no mechanism by which the development would introduce disease that would affect Grey Goshawk.
(g) interfere with the recovery of a locally significant species; or	There is no recovery plan in place for Grey Goshawk. The proposed development would not interfere with any future species recovery actions.
(h) cause disruption to ecologically significant locations (breeding, feeding, nesting, migration or resting sites) of a locally significant species.	No Grey Goshawk nests were observed during the field survey and all suitable habitat including ecologically significant locations will be retained.
CONCLUSION: The proposed development would not result in a significant residual impact on Grey Goshawk.	

7.3.2 Black-necked Stork Ephippiorhynchus asiaticus

Black-necked Stork, otherwise commonly known as ‘Jabiru’, generally inhabit wetlands including floodplains of rivers with large shallow pools, and deeper permanent bodies of water, and feed on fish, small crustaceans and amphibians (Australian Museum 2022). In wet conditions, individuals may stray into open grass, woodland areas or flooded paddocks in search of food (Australian Museum 2022).

Farm dams within the study area provide potentially suitable foraging habitat and open grassed areas and woodland may occasionally be utilised during wet conditions.

Planning Scheme Policy 1 provides criteria for determining the significant residual impact for MLES, which are addressed in **Table 7.3** for Black-necked Stork.

Table 7.3. MLES Significant Residual Impact Assessment for Black-necked Stork

Significant Residual Impact Criteria	Response
An action will have a significant residual impact on MLES if the action is likely to:	
(a) reduce the extent of the occurrence of a locally significant species;	The suitable habitat for Black-necked Stork in the study area is associated with farm dams that will be removed for development purposes. The proposed biobasins would not provide suitable habitat.
(b) lead to a decrease in the size of the local population of a locally significant species;	As there have only been two records of the species within 5 km of the study area over the past 43 years, and farm dams are a common habitat type present in the local landscape, the loss of the dams from the study area would not decrease the size of the local population.
(c) fragment an existing population for a locally significant species;	The proposed development would not fragment any existing habitat.
(d) result in genetically distinct populations forming as a result of habitat isolation;	The proposed development would not fragment habitat for the species, and therefore would not cause any part of the local population to become isolated.
(e) result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species habitat;	Black-necked Stork is not listed as endangered or vulnerable under State or Commonwealth legislation.
(f) introduce disease that may cause a locally significant species population to decline;	There is no mechanism by which the development would introduce disease that would affect Black-necked Stork.
(g) interfere with the recovery of a locally significant species; or	There is no recovery plan in place for Black-necked Stork. The proposed development would not interfere with any future species recovery actions.
(h) cause disruption to ecologically significant locations (breeding, feeding, nesting, migration or resting sites) of a locally significant species.	The study area does not support any ecologically significant locations for the species.
CONCLUSION: The proposed development would not result in a significant residual impact on Black-necked Stork.	

8.0 SUMMARY AND CONCLUSIONS

8.1 MATTERS OF STATE ENVIRONMENTAL SIGNIFICANCE

- The proposed development does not impact any regulated vegetation. As such, there is no applicable purpose or code to be assessed in respect to the Queensland *Vegetation Management Act 1999.*
- Koala (NC Act endangered) is known to occur in the study area, which supports Koala habitat including the forested portions of the site and paddocks that support occasional preferred food tree species such as *Eucalyptus tereticornis*, *E. racemosa*, and *E. microcorys*. There are two patches of bushland in the study area, the central portion in Lot 13 approximately 6 ha in area, and the south-eastern portion in Lot 16 approximately 4 ha in area.
- While there is no trigger for formal offsetting for the cleared vegetation under the Queensland Environmental Offsets framework, there is sufficient land (including cleared land, land that is currently treed but will be cleared for installation of services and then rehabilitated, and existing vegetation that will be restored by removal of exotic species) proposed for inclusion within nominated greenspace to facilitate compensatory planting of Koala food trees at a ratio of 3:1 in a configuration that would provide habitat connection between Eprapah Creek and core Koala habitat to the north.
- The development will not require any clearing of mapped core Koala habitat within the study area. No buildings, structures or works associated with the development are proposed within 50 m of the core Koala habitat area, with the exception of civil works for drainage in the North eastern portion of Lot 12. Any works proximate to core Koala habitats will be the subject of detailed design and overseen by an arborist.
- The layout of the proposed development has been formulated to buffer core Koala habitat mapped external to the study area and open spaces have been designed to incorporate as many of the locally mapped habitat and paddock trees as feasible within design considerations. There will be no requirement for clearing for infrastructure protection beyond that proposed to establish the development.
- Current Koala dispersal habitat comprised of scattered food trees and open space within the paddock areas will be impacted by the development with much of this area replaced by high and medium density residential development and roadways. Safe movement opportunities for Koala through these components of the landscape will be removed due to habitat tree removal, urban uses, increased traffic and risk of vehicle strike, and potential for increased disturbance and/or predation by domestic dogs.
- The development, through design will not create a barrier to any areas of mapped Koala habitat or an ecological corridor. There are no roads proposed to intersect the eastern open space/conservation corridor, allowing for unobstructed Koala movement within and through these habitats.
- It is expected that Powerful Owl (NC Act vulnerable) would occasion the study area for foraging. The habitat in the south-east of the study area is modelled by the State as core habitat for the species and will be retained. The forested portions of the study area which contain the most suitable nesting sites for the species are intended to be retained as per the development concept plan; however, targeted surveys for nesting evidence should be carried out, and particular care should be taken during development and rehabilitation works during nesting periods (late autumn to mid-winter in the Redlands) if nesting activity is recorded, to avoid any potential disturbance. The Eprapah Creek corridor adjacent to the study area and the conserved lands identified on the development concept plan are considered to be suitable to support any locally occurring Powerful Owls, and provided appropriate disturbance avoidance measures are applied around potential nest sites during the breeding season, no significant impact is expected to occur as a result of the development.

- Some hollow-bearing paddock trees suitable for Glossy Black-Cockatoo (NC Act vulnerable) nesting are currently within the development footprint; however, the forested portions of the site, in which the greatest habitat values for the species are present, are intended to be retained according to the development concept plan. Suitable Glossy Black-Cockatoo foraging species (She-oaks) are present in the forested portions of the study area on Lots 13 and 16 and, in some areas, preferred food species *Allocasuarina littoralis* dominates the subcanopy. Occurrence of the species within the study area is considered as likely. Maintenance of important habitat areas, revegetation of lands adjoining Eprapah Creek and revegetation of portions of the designated open space will contribute to ongoing habitat values. As a result, no significant impact to the species is expected from the development.
- While there is potential for Tusked Frog (NC Act vulnerable) to occur, effects of the development would not represent a significant impact on local populations of the species. Pre-clear surveys should be undertaken prior to disturbance to determine presence of the species and fauna spotters should be engaged to relocate Tusked Frogs if they occur. Construction and operation of the development must protect downstream habitats and water quality.
- In respect to echidna, this is a wide-ranging, common species utilises a variety of habitats from rainforest through to arid lands. No evidence of their presence was recorded by the site investigations, although the species is considered as having potential to occur. The species would not be reliant on the impact area, and it is not expected that the development would impact species persistence in the local area. The proposed habitat configurations and restoration activities will provide ongoing habitat and habitat linkages for Short-beaked Echidna. There is no significant impact expected for this species as a result of the development.
- Platypus is known to be present in the adjacent Eprapah Creek, although there is no suitable riparian habitat for the species within the study area.
- No naturally occurring critically endangered, endangered, vulnerable or near threatened flora species are considered likely to be present within the study area.
- The watercourse mapped in the north-east of the study area (Lot 12) is identified as a QLD waterway for waterway barrier works. The subject waterway has three separate impoundments which currently act as barriers or severe impediments to fish movement. The proposed development will remove the impoundments and will result in an overall improvement on fish passage. No significant residual impacts are identified.
- Under the NC Act, activities that require tampering with a native animal breeding place must be undertaken in accordance with an approved Species Management Program (SMP). As the time and season of proposed works commencing is unknown, an ecologist or qualified fauna spotter/catcher should inspect all vegetation immediately prior to clearing and if any confirmed active breeding places are recorded and need to be removed an SMP application must to be submitted to the Department of Environment, Science and Innovation for approval.
- A fauna spotter must be present during all clearing activities, and clearing is to be undertaken under the guidance of an approved Vegetation and Fauna Management Plan (VFMP).
- A fauna spotter must be present to relocate terrestrial and aquatic fauna from the dams prior to and during their emptying.
- A number of weed species listed as restricted, Category 3 restricted invasive plants under the Queensland *Biosecurity Act 2014* were recorded from the study area. In accordance with the act, Category 3 restricted matters must not be distributed (i.e. released into the environment) unless the distribution or disposal is authorised in a regulation or under a permit. More generally, landowners are responsible for taking all reasonable and practical steps to minimise the risks associated with invasive plants under their control. Contractors appointed to the project will also need to implement management controls and disposal in accordance with the *Biosecurity Act 2014*.

- Any ecological restoration works will be undertaken using appropriate low-impact methods to maintain soil integrity. Where exotic trees are removed within retained habitats, these will be cut above ground level with the existing root system kept intact to maintain soil stability. All non-native trees removed will be replaced with endemic native trees. No invasive exotic species will be planted in the landscaped components of the development.
- The proposed design provides for an additional 4 ha of currently cleared farmland to be subject to landscape treatments that will connect the retained bushland habitats and provide for koala movement through the site. The planting of this connection will further supplement vegetation retained on the eastern boundary of the site.
- Retained native vegetation and open space areas will be maintained through the implementation of a Vegetation Management Plan to ensure there is no introduction or spread of weeds on site or into the adjacent habitat.

8.2 MATTERS OF LOCAL ENVIRONMENTAL SIGNIFICANCE

- While the PDA development approval is not subject to assessment under the local government planning scheme, there are potential impacts on matters of local environmental significance mapped under the Environmental Significance Overlay and Waterway Corridors and Wetlands Overlay for which the development should have regard.
- The development design has sought to retain the higher value habitats within the Study area, although there will be a total loss of mapped MLES within the proposed urbanised portion of the study area due to the required civil works. Replacement plantings and restoration will mitigate any impacts.
- Replacement planting of cleared Koala trees at a ratio of approximately 3:1 within currently cleared lands proposed for open space, streetscapes and greenspace, as well as within retained regrowth and remnant vegetation where non-native canopy species are present, will have a net benefit for overall biodiversity and ecological functions and processes in the locality.
- Due to the proposed mitigation action of providing replacement plantings within retained habitats and corridor linkages and based on a review of the locally significant species listed in Appendix A of RCC City Plan 2018 Policy 1, there is no potential for any significant residual impacts on MLES.
- A Waterway Corridor is mapped at the south-eastern corner of the study area along Eprapah Creek which is categorised as a stream order 5 (major) waterway on RCC's online waterway mapping. The waterway corridor is entirely incorporated into retained vegetation such that there is no assessment required in regard to this MLES. It is proposed to undertake vegetation restoration works in this location to remove the invasive Slash Pine that currently dominates the canopy layer. Works will be outlined in the future Rehabilitation management Plan to be developed subject to final design.
- Ecological restoration work, including management of environmental and garden-escape weeds within the retained forested portions of the study area, will contribute to achieving the priority outcomes for the Eprapah Creek Riparian Corridor.
- Control of domestic animals will be managed primarily by Council through enforcement of local laws. Management of other impacts resulting from urban land use such as noise and light reduction will be explored during further detailed design and development planning.
- All restoration works to be in accordance with the proposed Rehabilitation Management Plan to be developed upon finalisation of the final development application and provided as part of operational works applications.

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APPENDIX A
WildNet Species List

Queensland Government

WildNet species list

Search Criteria: Species List for a Specified Point
Species: All
Type: Native
Queensland status: All
Records: Confirmed
Date: Since 1980
Latitude: -27.5807
Longitude: 153.2591
Distance: 5
Email: emma@baamecology.com
Date submitted: Tuesday 19 Sep 2023 15:43:12
Date extracted: Tuesday 19 Sep 2023 15:50:02

The number of records retrieved = 405

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Information about your Species lists request is logged for quality assurance, user support and product enhancement purposes only.
The information provided should be appropriately acknowledged as being derived from WildNet database when it is used. As the WildNet Program is still in a process of collating and vetting data, it is possible the information given is not complete. Go to the WildNet database webpage (https://www.qld.gov.au/environment/plants-animals/species-information/wildnet) to find out more about WildNet and where to access other WildNet information products approved for publication. Feedback about WildNet species lists should be emailed to wildlife.online@des.qld.gov.au.

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	amphibians	Hylidae	*Litoria caerulea*	common green treefrog		C		72
animals	amphibians	Hylidae	*Litoria fallax*	eastern sedgefrog		C		62
animals	amphibians	Hylidae	*Litoria gracilenta*	graceful treefrog		C		17
animals	amphibians	Hylidae	*Litoria latopalmata*	broad palmed rocketfrog		C		1
animals	amphibians	Hylidae	*Litoria nasuta*	striped rocketfrog		C		21
animals	amphibians	Hylidae	*Litoria peronii*	emerald spotted treefrog		C		1
animals	amphibians	Hylidae	*Litoria rubella*	ruddy treefrog		C		8
animals	amphibians	Hylidae	*Litoria tyleri*	southern laughing treefrog		C		2
animals	amphibians	Limnodynastidae	*Adelotus brevis*	tusked frog		V		7
animals	amphibians	Limnodynastidae	*Limnodynastes peronii*	striped marshfrog		C		36
animals	amphibians	Limnodynastidae	*Limnodynastes tasmaniensis*	spotted grassfrog		C		1
animals	amphibians	Limnodynastidae	*Platyplectrum ornatum*	ornate burrowing frog		C		3
animals	amphibians	Myobatrachidae	*Crinia parinsignifera*	beeping froglet		C		9
animals	amphibians	Myobatrachidae	*Crinia signifera*	clicking froglet		C		3
animals	amphibians	Myobatrachidae	*Mixophyes fasciolatus*	great barred frog		C		5
animals	amphibians	Myobatrachidae	*Pseudophryne coriacea*	red backed broodfrog		C		3
animals	amphibians	Myobatrachidae	*Pseudophryne major*	great brown broodfrog		C		3
animals	amphibians	Myobatrachidae	*Pseudophryne raveni*	copper backed broodfrog		C		7
animals	amphibians	Myobatrachidae	*Uperoleia fusca*	dusky gungan		C		1
animals	birds	Acanthizidae	*Acanthiza lineata*	striated thornbill		C		4
animals	birds	Acanthizidae	*Acanthiza pusilla*	brown thornbill		C		27
animals	birds	Acanthizidae	*Acanthiza reguloides*	buff-rumped thornbill		C		1
animals	birds	Acanthizidae	*Gerygone levigaster*	mangrove gerygone		C		5
animals	birds	Acanthizidae	*Gerygone olivacea*	white-throated gerygone		C		26
animals	birds	Acanthizidae	*Pyrrholaemus sagittatus*	speckled warbler		C		3
animals	birds	Acanthizidae	*Sericornis frontalis*	white-browed scrubwren		C		12
animals	birds	Acanthizidae	*Smicrornis brevirostris*	weebill		C		3
animals	birds	Accipitridae	*Accipiter cirrocephalus*	collared sparrowhawk		C		1
animals	birds	Accipitridae	*Accipiter fasciatus*	brown goshawk		C		8
animals	birds	Accipitridae	*Accipiter novaehollandiae*	grey goshawk		C		2
animals	birds	Accipitridae	*Aquila audax*	wedge-tailed eagle		C		3
animals	birds	Accipitridae	*Aviceda subcristata*	Pacific baza		C		9
animals	birds	Accipitridae	*Circus approximans*	swamp harrier		C		2
animals	birds	Accipitridae	*Elanus axillaris*	black-shouldered kite		C		13
animals	birds	Accipitridae	*Haliaeetus leucogaster*	white-bellied sea-eagle		C		73
animals	birds	Accipitridae	*Haliastur indus*	brahminy kite		C		114
animals	birds	Accipitridae	*Haliastur sphenurus*	whistling kite		C		165
animals	birds	Accipitridae	*Milvus migrans*	black kite		C		1
animals	birds	Aegothelidae	*Aegotheles cristatus*	Australian owlet-nightjar		C		5
animals	birds	Alcedinidae	*Ceyx azureus*	azure kingfisher		C		3
animals	birds	Alcedinidae	*Dacelo novaeguineae*	laughing kookaburra		C		49
animals	birds	Alcedinidae	*Todiramphus macleayii*	forest kingfisher		C		21
animals	birds	Alcedinidae	*Todiramphus sanctus*	sacred kingfisher		C		26
animals	birds	Alcedinidae	*Todiramphus sordidus*	Torresian kingfisher		C		4
animals	birds	Anatidae	*Anas castanea*	chestnut teal		C		85
animals	birds	Anatidae	*Anas gracilis*	grey teal		C		3

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Anatidae	*Anas superciliosa*	Pacific black duck		C		34
animals	birds	Anatidae	*Aythya australis*	hardhead		C		10
animals	birds	Anatidae	*Chenonetta jubata*	Australian wood duck		C		38
animals	birds	Anatidae	*Cygnus atratus*	black swan		C		57
animals	birds	Anatidae	*Dendrocygna arcuata*	wandering whistling-duck		C		3
animals	birds	Anatidae	*Dendrocygna eytoni*	plumed whistling-duck		C		1
animals	birds	Anhingidae	*Anhinga novaehollandiae*	Australasian darter		C		56
animals	birds	Anseranatidae	*Anseranas semipalmata*	magpie goose		C		5
animals	birds	Apodidae	*Apus pacificus*	fork-tailed swift		SL		1
animals	birds	Apodidae	*Hirundapus caudacutus*	white-throated needletail		V	V	6
animals	birds	Ardeidae	*Ardea alba modesta*	eastern great egret		C		280
animals	birds	Ardeidae	*Ardea intermedia*	intermediate egret		C		55
animals	birds	Ardeidae	*Ardea pacifica*	white-necked heron		C		2
animals	birds	Ardeidae	*Bubulcus ibis*	cattle egret		C		35
animals	birds	Ardeidae	*Butorides striata*	striated heron		C		6
animals	birds	Ardeidae	*Egretta garzetta*	little egret		C		198
animals	birds	Ardeidae	*Egretta novaehollandiae*	white-faced heron		C		528
animals	birds	Ardeidae	*Egretta sacra*	eastern reef egret		C		1
animals	birds	Ardeidae	*Nycticorax caledonicus*	nankeen night-heron		C		5
animals	birds	Artamidae	*Artamus cyanopterus*	dusky woodswallow		C		1
animals	birds	Artamidae	*Artamus leucorynchus*	white-breasted woodswallow		C		16
animals	birds	Artamidae	*Cracticus nigrogularis*	pied butcherbird		C		37
animals	birds	Artamidae	*Cracticus sp.*			C		1
animals	birds	Artamidae	*Cracticus torquatus*	grey butcherbird		C		23
animals	birds	Artamidae	*Gymnorhina tibicen*	Australian magpie		C		38
animals	birds	Burhinidae	*Burhinus grallarius*	bush stone-curlew		C		12
animals	birds	Cacatuidae	*Cacatua galerita*	sulphur-crested cockatoo		C		16
animals	birds	Cacatuidae	*Cacatua sanguinea*	little corella		C		7
animals	birds	Cacatuidae	*Calyptorhynchus lathami*	glossy black-cockatoo		V		1
animals	birds	Cacatuidae	*Calyptorhynchus lathami lathami*	glossy black-cockatoo (eastern)		V	V	5
animals	birds	Cacatuidae	*Eolophus roseicapilla*	galah		C		28
animals	birds	Campephagidae	*Coracina novaehollandiae*	black-faced cuckoo-shrike		C		44
animals	birds	Campephagidae	*Coracina papuensis*	white-bellied cuckoo-shrike		C		2
animals	birds	Campephagidae	*Edolisoma tenuirostre*	common cicadabird		C		10
animals	birds	Campephagidae	*Lalage leucomela*	varied triller		C		10
animals	birds	Charadriidae	*Charadrius bicinctus*	double-banded plover		SL		77
animals	birds	Charadriidae	*Charadrius leschenaultii*	greater sand plover		V	V	8
animals	birds	Charadriidae	*Charadrius mongolus*	lesser sand plover		E	E	26
animals	birds	Charadriidae	*Charadrius ruficapillus*	red-capped plover		C		283
animals	birds	Charadriidae	*Elseyornis melanops*	black-fronted dotterel		C		103
animals	birds	Charadriidae	*Erythrogonys cinctus*	red-kneed dotterel		C		8
animals	birds	Charadriidae	*Pluvialis fulva*	Pacific golden plover		SL		205
animals	birds	Charadriidae	*Pluvialis squatarola*	grey plover		SL		3
animals	birds	Charadriidae	*Vanellus miles*	masked lapwing		C		460
animals	birds	Charadriidae	*Vanellus miles novaehollandiae*	masked lapwing (southern subspecies)		C		20
animals	birds	Ciconiidae	*Ephippiorhynchus asiaticus*	black-necked stork		C		2

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Cisticolidae	*Cisticola exilis*	golden-headed cisticola		C		14
animals	birds	Climacteridae	*Climacteris affinis*	white-browed treecreeper		C		4
animals	birds	Climacteridae	*Cormobates leucophaea metastasis*	white-throated treecreeper (southern)		C		20
animals	birds	Columbidae	*Geopelia humeralis*	bar-shouldered dove		C		18
animals	birds	Columbidae	*Geopelia placida*	peaceful dove		C		19
animals	birds	Columbidae	*Leucosarcia melanoleuca*	wonga pigeon		C		1
animals	birds	Columbidae	*Macropygia phasianella*	brown cuckoo-dove		C		4
animals	birds	Columbidae	*Ocyphaps lophotes*	crested pigeon		C		33
animals	birds	Columbidae	*Phaps chalcoptera*	common bronzewing		C		5
animals	birds	Coraciidae	*Eurystomus orientalis*	dollarbird		C		20
animals	birds	Corvidae	*Corvus orru*	Torresian crow		C		48
animals	birds	Cuculidae	*Cacomantis flabelliformis*	fan-tailed cuckoo		C		13
animals	birds	Cuculidae	*Cacomantis variolosus*	brush cuckoo		C		2
animals	birds	Cuculidae	*Centropus phasianinus*	pheasant coucal		C		20
animals	birds	Cuculidae	*Chalcites basalis*	Horsfield's bronze-cuckoo		C		4
animals	birds	Cuculidae	*Chalcites lucidus*	shining bronze-cuckoo		C		13
animals	birds	Cuculidae	*Chalcites minutillus barnardi*	Eastern little bronze-cuckoo		C		1
animals	birds	Cuculidae	*Eudynamys orientalis*	eastern koel		C		16
animals	birds	Cuculidae	*Scythrops novaehollandiae*	channel-billed cuckoo		C		5
animals	birds	Dicaeidae	*Dicaeum hirundinaceum*	mistletoebird		C		18
animals	birds	Dicruridae	*Dicrurus bracteatus*	spangled drongo		C		32
animals	birds	Dicruridae	*Dicrurus bracteatus bracteatus*	spangled drongo (eastern Australia)		C		1
animals	birds	Estrildidae	*Lonchura castaneothorax*	chestnut-breasted mannikin		C		6
animals	birds	Estrildidae	*Neochmia temporalis*	red-browed finch		C		18
animals	birds	Estrildidae	*Taeniopygia bichenovii*	double-barred finch		C		15
animals	birds	Eurostopodidae	*Eurostopodus mystacalis*	white-throated nightjar		C		3
animals	birds	Falconidae	*Falco cenchroides*	nankeen kestrel		C		3
animals	birds	Falconidae	*Falco longipennis*	Australian hobby		C		3
animals	birds	Falconidae	*Falco peregrinus macropus*	Australian peregrine falcon		C		2
animals	birds	Haematopodidae	*Haematopus fuliginosus*	sooty oystercatcher		C		3
animals	birds	Haematopodidae	*Haematopus longirostris*	Australian pied oystercatcher		C		140
animals	birds	Hirundinidae	*Hirundo neoxena*	welcome swallow		C		25
animals	birds	Hirundinidae	*Petrochelidon ariel*	fairy martin		C		4
animals	birds	Hirundinidae	*Petrochelidon nigricans*	tree martin		C		7
animals	birds	Jacanidae	*Irediparra gallinacea*	comb-crested jacana		C		4
animals	birds	Laridae	*Chroicocephalus novaehollandiae*	silver gull		C		22
animals	birds	Laridae	*Gelochelidon nilotica*	gull-billed tern		SL		294
animals	birds	Laridae	*Gygis alba*	white tern		C		1/1
animals	birds	Laridae	*Hydroprogne caspia*	Caspian tern		SL		344
animals	birds	Laridae	*Sterna hirundo*	common tern		SL		4
animals	birds	Laridae	*Sternula albifrons*	little tern		SL		11
animals	birds	Laridae	*Thalasseus bengalensis*	lesser crested tern		C		1
animals	birds	Laridae	*Thalasseus bergii*	crested tern		SL		16
animals	birds	Locustellidae	*Cincloramphus timoriensis*	tawny grassbird		C		6
animals	birds	Maluridae	*Malurus cyaneus*	superb fairy-wren		C		4
animals	birds	Maluridae	*Malurus lamberti*	variegated fairy-wren		C		25

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Maluridae	*Malurus melanocephalus*	red-backed fairy-wren		C		21
animals	birds	Megapodiidae	*Alectura lathami*	Australian brush-turkey		C		6
animals	birds	Meliphagidae	*Acanthorhynchus tenuirostris*	eastern spinebill		C		4
animals	birds	Meliphagidae	*Anthochaera chrysoptera*	little wattlebird		C		8
animals	birds	Meliphagidae	*Caligavis chrysops*	yellow-faced honeyeater		C		19
animals	birds	Meliphagidae	*Entomyzon cyanotis*	blue-faced honeyeater		C		12
animals	birds	Meliphagidae	*Gavicalis fasciogularis*	mangrove honeyeater		C		6
animals	birds	Meliphagidae	*Lichmera indistincta*	brown honeyeater		C		30
animals	birds	Meliphagidae	*Manorina melanocephala*	noisy miner		C		42
animals	birds	Meliphagidae	*Meliphaga lewinii*	Lewin's honeyeater		C		20
animals	birds	Meliphagidae	*Melithreptus albogularis*	white-throated honeyeater		C		31
animals	birds	Meliphagidae	*Melithreptus lunatus*	white-naped honeyeater		C		1
animals	birds	Meliphagidae	*Myzomela sanguinolenta*	scarlet honeyeater		C		28
animals	birds	Meliphagidae	*Philemon citreogularis*	little friarbird		C		9
animals	birds	Meliphagidae	*Philemon corniculatus*	noisy friarbird		C		32
animals	birds	Meliphagidae	*Plectorhyncha lanceolata*	striped honeyeater		C		5
animals	birds	Meliphagidae	*Ptilotula fusca*	fuscous honeyeater		C		1
animals	birds	Meropidae	*Merops ornatus*	rainbow bee-eater		C		22
animals	birds	Monarchidae	*Grallina cyanoleuca*	magpie-lark		C		43
animals	birds	Monarchidae	*Monarcha melanopsis*	black-faced monarch		SL		6
animals	birds	Monarchidae	*Myiagra cyanoleuca*	satin flycatcher		SL		1
animals	birds	Monarchidae	*Myiagra inquieta*	restless flycatcher		C		1
animals	birds	Monarchidae	*Myiagra rubecula*	leaden flycatcher		C		24
animals	birds	Monarchidae	*Symposiachrus trivirgatus*	spectacled monarch		SL		3
animals	birds	Motacillidae	*Anthus novaeseelandiae*	Australasian pipit		C		8
animals	birds	Neosittidae	*Daphoenositta chrysoptera*	varied sittella		C		5
animals	birds	Oriolidae	*Oriolus sagittatus*	olive-backed oriole		C		24
animals	birds	Oriolidae	*Sphecotheres vieilloti*	Australasian figbird		C		16
animals	birds	Pachycephalidae	*Colluricincla harmonica*	grey shrike-thrush		C		33
animals	birds	Pachycephalidae	*Colluricincla megarhyncha*	little shrike-thrush		C		6
animals	birds	Pachycephalidae	*Pachycephala pectoralis*	golden whistler		C		15
animals	birds	Pachycephalidae	*Pachycephala pectoralis youngi*	golden whistler (south-eastern Australia)		C		1
animals	birds	Pachycephalidae	*Pachycephala rufiventris*	rufous whistler		C		43
animals	birds	Pandionidae	*Pandion haliaetus cristatus*	eastern osprey		SL		35
animals	birds	Pardalotidae	*Pardalotus punctatus*	spotted pardalote		C		5
animals	birds	Pardalotidae	*Pardalotus striatus*	striated pardalote		C		31
animals	birds	Pelecanidae	*Pelecanus conspicillatus*	Australian pelican		C		186
animals	birds	Petroicidae	*Eopsaltria australis*	eastern yellow robin		C		29
animals	birds	Petroicidae	*Microeca fascinans*	jacky winter		C		2
animals	birds	Petroicidae	*Petroica rosea*	rose robin		C		5
animals	birds	Phalacrocoracidae	*Microcarbo melanoleucos*	little pied cormorant		C		103
animals	birds	Phalacrocoracidae	*Phalacrocorax carbo*	great cormorant		C		4
animals	birds	Phalacrocoracidae	*Phalacrocorax sulcirostris*	little black cormorant		C		53
animals	birds	Phalacrocoracidae	*Phalacrocorax varius*	pied cormorant		C		42
animals	birds	Phasianidae	*Synoicus ypsilophorus*	brown quail		C		11

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Podargidae	*Podargus strigoides*	tawny frogmouth		C		25
animals	birds	Podicipedidae	*Tachybaptus novaehollandiae*	Australasian grebe		C		9
animals	birds	Pomatostomidae	*Pomatostomus temporalis*	grey-crowned babbler		C		1
animals	birds	Procellariidae	*Pterodroma leucoptera*	Gould's petrel		C		1
animals	birds	Psittaculidae	*Alisterus scapularis*	Australian king-parrot		C		2
animals	birds	Psittaculidae	*Melopsittacus undulatus*	budgerigar		C		1
animals	birds	Psittaculidae	*Parvipsitta pusilla*	little lorikeet		C		6
animals	birds	Psittaculidae	*Platycercus adscitus*	pale-headed rosella		C		38
animals	birds	Psittaculidae	*Platycercus adscitus palliceps*	pale-headed rosella (southern form)		C		5
animals	birds	Psittaculidae	*Platycercus elegans*	crimson rosella		C		1
animals	birds	Psittaculidae	*Trichoglossus chlorolepidotus*	scaly-breasted lorikeet		C		13
animals	birds	Psittaculidae	*Trichoglossus moluccanus*	rainbow lorikeet		C		47
animals	birds	Psophodidae	*Psophodes olivaceus*	eastern whipbird		C		15
animals	birds	Rallidae	*Fulica atra*	Eurasian coot		C		5
animals	birds	Rallidae	*Gallinula tenebrosa*	dusky moorhen		C		18
animals	birds	Rallidae	*Gallirallus philippensis*	buff-banded rail		C		2
animals	birds	Rallidae	*Lewinia pectoralis*	Lewin's rail		C		2
animals	birds	Rallidae	*Porphyrio melanotus*	purple swamphen		C		19
animals	birds	Rallidae	*Porzana fluminea*	Australian spotted crake		C		1
animals	birds	Rallidae	*Zapornia pusilla*	Baillon's crake		C		1
animals	birds	Recurvirostridae	*Himantopus leucocephalus*	pied stilt		C		148
animals	birds	Recurvirostridae	*Recurvirostra novaehollandiae*	red-necked avocet		C		3
animals	birds	Rhipiduridae	*Rhipidura albiscapa*	grey fantail		C		35
animals	birds	Rhipiduridae	*Rhipidura leucophrys*	willie wagtail		C		38
animals	birds	Rhipiduridae	*Rhipidura rufifrons*	rufous fantail		SL		4
animals	birds	Rostratulidae	*Rostratula australis*	Australian painted-snipe		E	E	1
animals	birds	Scolopacidae	*Actitis hypoleucos*	common sandpiper		SL		3
animals	birds	Scolopacidae	*Arenaria interpres*	ruddy turnstone		SL		26
animals	birds	Scolopacidae	*Calidris acuminata*	sharp-tailed sandpiper		SL		118
animals	birds	Scolopacidae	*Calidris alba*	sanderling		SL		1
animals	birds	Scolopacidae	*Calidris canutus*	red knot		E	E	12
animals	birds	Scolopacidae	*Calidris ferruginea*	curlew sandpiper		CR	CE	17
animals	birds	Scolopacidae	*Calidris ruficollis*	red-necked stint		SL		147
animals	birds	Scolopacidae	*Calidris tenuirostris*	great knot		CR	CE	61
animals	birds	Scolopacidae	*Limnodromus semipalmatus*	Asian dowitcher		SL		1
animals	birds	Scolopacidae	*Limosa lapponica baueri*	Western Alaskan bar-tailed godwit		V	V	297
animals	birds	Scolopacidae	*Limosa limosa*	black-tailed godwit		SL		3
animals	birds	Scolopacidae	*Numenius madagascariensis*	eastern curlew		E	CE	484
animals	birds	Scolopacidae	*Numenius phaeopus*	whimbrel		SL		254
animals	birds	Scolopacidae	*Tringa brevipes*	grey-tailed tattler		SL		46
animals	birds	Scolopacidae	*Tringa nebularia*	common greenshank		SL		73
animals	birds	Scolopacidae	*Tringa stagnatilis*	marsh sandpiper		SL		7
animals	birds	Scolopacidae	*Xenus cinereus*	terek sandpiper		SL		8
animals	birds	Strigidae	*Ninox boobook*	southern boobook		C		9
animals	birds	Strigidae	*Ninox connivens*	barking owl		C		1
animals	birds	Strigidae	*Ninox strenua*	powerful owl		V		13

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Threskiornithidae	*Platalea flavipes*	yellow-billed spoonbill		C		1
animals	birds	Threskiornithidae	*Platalea regia*	royal spoonbill		C		76
animals	birds	Threskiornithidae	*Plegadis falcinellus*	glossy ibis		SL		2
animals	birds	Threskiornithidae	*Threskiornis molucca*	Australian white ibis		C		736
animals	birds	Threskiornithidae	*Threskiornis spinicollis*	straw-necked ibis		C		85
animals	birds	Turnicidae	*Turnix pyrrhothorax*	red-chested button-quail		C		1
animals	birds	Turnicidae	*Turnix varius*	painted button-quail		C		2
animals	birds	Tytonidae	*Tyto javanica*	eastern barn owl		C		2
animals	birds	Zosteropidae	*Zosterops lateralis*	silvereye		C		35
animals	insects	Nymphalidae	*Euploea corinna*	common crow				1
animals	malacostracans	Parastacidae	*Cherax depressus*					2
animals	mammals	Dasyuridae	*Antechinus flavipes flavipes*	yellow-footed antechinus (south-east Queensland)		C		5
animals	mammals	Dasyuridae	*Planigale maculata*	common planigale		C		3
animals	mammals	Dasyuridae	*Sminthopsis murina*	common dunnart		C		5
animals	mammals	Delphinidae	*Tursiops aduncus*	Indo-Pacific bottlenose dolphin		C		1
animals	mammals	Macropodidae	*Macropus sp.*			C		1
animals	mammals	Macropodidae	*Notamacropus rufogriseus*	red-necked wallaby		C		9
animals	mammals	Macropodidae	*Wallabia bicolor*	swamp wallaby		C		15
animals	mammals	Miniopteridae	*Miniopterus australis*	little bent-wing bat		C		2
animals	mammals	Miniopteridae	*Miniopterus schreibersii oceanensis*	eastern bent-wing bat		C		1
animals	mammals	Molossidae	*Austronomus australis*	white-striped freetail bat		C		6
animals	mammals	Molossidae	*Mormopterus norfolkensis*	east coast freetail bat		C		2
animals	mammals	Muridae	*Hydromys chrysogaster*	water rat		C		8/1
animals	mammals	Muridae	*Rattus lutreolus*	swamp rat		C		3
animals	mammals	Peramelidae	*Isoodon macrourus*	northern brown bandicoot		C		13
animals	mammals	Petauridae	*Petaurus breviceps sensu lato*	sugar glider		C		1
animals	mammals	Petauridae	*Petaurus norfolcensis*	squirrel glider		C		7
animals	mammals	Phalangeridae	*Trichosurus vulpecula*	common brushtail possum		C		27
animals	mammals	Phascolarctidae	*Phascolarctos cinereus*	koala		E	E	4524
animals	mammals	Pseudocheiridae	*Petauroides armillatus*	central greater glider		E	E	6
animals	mammals	Pseudocheiridae	*Pseudocheirus peregrinus*	common ringtail possum		C		16
animals	mammals	Pteropodidae	*Pteropus alecto*	black flying-fox		C		45
animals	mammals	Pteropodidae	*Pteropus poliocephalus*	grey-headed flying-fox		C	V	29
animals	mammals	Pteropodidae	*Pteropus scapulatus*	little red flying-fox		C		1
animals	mammals	Pteropodidae	*Pteropus sp.*			C		1
animals	mammals	Tachyglossidae	*Tachyglossus aculeatus*	short-beaked echidna		SL		2
animals	mammals	Vespertilionidae	*Chalinolobus gouldii*	Gould's wattled bat		C		2
animals	mammals	Vespertilionidae	*Chalinolobus morio*	chocolate wattled bat		C		1
animals	mammals	Vespertilionidae	*Chalinolobus nigrogriseus*	hoary wattled bat		C		1
animals	mammals	Vespertilionidae	*Myotis macropus*	large-footed myotis		C		2
animals	mammals	Vespertilionidae	*Nyctophilus sp.*			C		1
animals	mammals	Vespertilionidae	*Scotorepens greyii*	little broad-nosed bat		C		2
animals	mammals	Vespertilionidae	*Scotorepens orion*	south-eastern broad-nosed bat		C		1
animals	ray-finned fishes	Anguillidae	*Anguilla australis*	southern shortfin eel				49
animals	ray-finned fishes	Anguillidae	*Anguilla reinhardtii*	longfin eel				66

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	ray-finned fishes	Atherinidae	*Craterocephalus stercusmuscarum*	flyspecked hardyhead				16
animals	ray-finned fishes	Eleotridae	*Gobiomorphus australis*	striped gudgeon				55
animals	ray-finned fishes	Eleotridae	*Hypseleotris compressa*	empire gudgeon				77
animals	ray-finned fishes	Eleotridae	*Hypseleotris galii*	firetail gudgeon				87
animals	ray-finned fishes	Eleotridae	*Hypseleotris klunzingeri*	western carp gudgeon				7
animals	ray-finned fishes	Eleotridae	*Mogurnda adspersa*	southern purplespotted gudgeon				2
animals	ray-finned fishes	Hemiramphidae	*Arrhamphus sclerolepis*	snubnose garfish				1
animals	ray-finned fishes	Kuhliidae	*Kuhlia rupestris*	jungle perch				1
animals	ray-finned fishes	Megalopidae	*Megalops cyprinoides*	oxeye herring				1
animals	ray-finned fishes	Melanotaeniidae	*Melanotaenia duboulayi*	crimsonspotted rainbowfish				31
animals	ray-finned fishes	Melanotaeniidae	*Rhadinocentrus ornatus*	ornate rainbowfish				44
animals	ray-finned fishes	Mugilidae	*Mugil cephalus*	sea mullet				10
animals	ray-finned fishes	Percichthyidae	*Macquaria novemaculeata*	Australian bass				3
animals	ray-finned fishes	Plotosidae	*Tandanus tandanus*	freshwater catfish				23
animals	ray-finned fishes	Synbranchidae	*Ophisternon gutturale*	swamp eel				2
animals	reptiles	Agamidae	*Diporiphora australis*	tommy roundhead		C		1
animals	reptiles	Agamidae	*Intellagama lesueurii*	eastern water dragon		C		11
animals	reptiles	Agamidae	*Pogona barbata*	bearded dragon		C		6
animals	reptiles	Boidae	*Morelia spilota*	carpet python		C		4
animals	reptiles	Chelidae	*Chelodina longicollis*	eastern snake-necked turtle		C		2
animals	reptiles	Chelidae	*Emydura macquarii macquarii*	Murray turtle		C		1
animals	reptiles	Chelidae	*Wollumbinia latisternum*	saw-shelled turtle		C		4
animals	reptiles	Colubridae	*Boiga irregularis*	brown tree snake		C		2
animals	reptiles	Colubridae	*Dendrelaphis punctulatus*	green tree snake		C		3
animals	reptiles	Colubridae	*Tropidonophis mairii*	freshwater snake		C		3
animals	reptiles	Elapidae	*Cacophis harriettae*	white-crowned snake		C		1
animals	reptiles	Elapidae	*Cryptophis nigrescens*	eastern small-eyed snake		C		6
animals	reptiles	Elapidae	*Demansia psammophis*	yellow-faced whipsnake		C		9
animals	reptiles	Elapidae	*Pseudechis porphyriacus*	red-bellied black snake		C		1
animals	reptiles	Pygopodidae	*Lialis burtonis*	Burton's legless lizard		C		2
animals	reptiles	Scincidae	*Anomalopus verreauxii*	three-clawed worm-skink		C		6/1
animals	reptiles	Scincidae	*Calyptotis scutirostrum*	scute-snouted calyptotis		C		10
animals	reptiles	Scincidae	*Carlia vivax*	tussock rainbow-skink		C		5
animals	reptiles	Scincidae	*Cryptoblepharus pulcher pulcher*	elegant snake-eyed skink		C		10
animals	reptiles	Scincidae	*Ctenotus spaldingi*	straight-browed ctenotus		C		5/1
animals	reptiles	Scincidae	*Ctenotus taeniolatus*	copper-tailed skink		C		2
animals	reptiles	Scincidae	*Eulamprus quoyii*	eastern water skink		C		5
animals	reptiles	Scincidae	*Lampropholis amicula*	friendly sunskink		C		4
animals	reptiles	Scincidae	*Lampropholis delicata*	dark-flecked garden sunskink		C		13
animals	reptiles	Scincidae	*Lygisaurus foliorum*	tree-base litter-skink		C		1
animals	reptiles	Scincidae	*Tiliqua scincoides scincoides*	eastern bluetongue		C		5
animals	reptiles	Varanidae	*Varanus varius*	lace monitor		C		6
animals	uncertain	Indeterminate	*Indeterminate*	Unknown or Code Pending				34
fungi	Agaricomycetes	Agaricaceae	*Cyathus olla*			C		1/1
fungi	Agaricomycetes	Agaricaceae	*Leucocoprinus*					1/1
fungi	Agaricomycetes	Agaricaceae	*Macrolepiota dolichaula*			C		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
fungi	Agaricomycetes	Amanitaceae	*Amanita*			C		3/3
fungi	Agaricomycetes	Amanitaceae	*Amanita ochrophylla*			C		1/1
fungi	Agaricomycetes	Amanitaceae	*Amanita pyramidifera*			C		1/1
fungi	Agaricomycetes	Boletaceae	*Boletellus*					2/2
fungi	Agaricomycetes	Boletaceae	*Boletellus dissiliens*			C		1/1
fungi	Agaricomycetes	Boletaceae	*Boletus*					3/3
fungi	Agaricomycetes	Boletaceae	*Phylloporus*					1/1
fungi	Agaricomycetes	Boletaceae	*Strobilomyces*					1/1
fungi	Agaricomycetes	Boletaceae	*Tylopilus*					7/7
fungi	Agaricomycetes	Cortinariaceae	*Cortinarius*					1/1
fungi	Agaricomycetes	Gomphaceae	*Ramaria*			C		5/5
fungi	Agaricomycetes	Hydnangiaceae	*Laccaria*					1/1
fungi	Agaricomycetes	Phallaceae	*Aseroe rubra*			C		2/2
fungi	Agaricomycetes	Phallaceae	*Phallus indusiatus*			C		1/1
fungi	Agaricomycetes	Polyporaceae	*Pycnoporus coccineus*			C		1/1
fungi	Agaricomycetes	Russulaceae	*Russula*			C		4/4
fungi	lecanoromycetes	Parmeliaceae	*Parmotrema austrosinense*			C		1/1
fungi	lecanoromycetes	Ramalinaceae	*Ramalina*					1/1
fungi	lecanoromycetes	Teloschistaceae	*Teloschistes flavicans*			C		1/1
plants	Ulvophyceae	Caulerpaceae	*Caulerpa taxifolia*			C		1/1
plants	land plants	Apiaceae	*Centella asiatica*			C		1/1
plants	land plants	Araliaceae	*Astrotricha latifolia*			C		1/1
plants	land plants	Araliaceae	*Heptapleurum actinophyllum*			C		1/1
plants	land plants	Asteraceae	*Cyanthillium cinereum*			C		1/1
plants	land plants	Asteraceae	*Olearia nernstii*	Ipswich daisy		C		1/1
plants	land plants	Asteraceae	*Sphaeromorphaea australis*			C		1/1
plants	land plants	Campanulaceae	*Lobelia gibbosa*	native lobelia		SL		1/1
plants	land plants	Casuarinaceae	*Allocasuarina littoralis*			C		2/2
plants	land plants	Celastraceae	*Elaeodendron melanocarpum*			C		1/1
plants	land plants	Chenopodiaceae	*Suaeda australis*			C		1/1
plants	land plants	Chenopodiaceae	*Tecticornia pergranulata subsp. queenslandica*			C		2/2
plants	land plants	Colchicaceae	*Tripladenia cunninghamii*			C		1/1
plants	land plants	Cyperaceae	*Cyperus aquatilis*			C		2/2
plants	land plants	Cyperaceae	*Fuirena ciliaris*			C		1/1
plants	land plants	Cyperaceae	*Gahnia clarkei*	tall sawsedge		C		1/1
plants	land plants	Cyperaceae	*Isolepis cernua*	nodding club rush		C		1/1
plants	land plants	Cyperaceae	*Ptilothrix deusta*			C		1/1
plants	land plants	Euphorbiaceae	*Croton acronychioides*	thick-leaved croton		C		1/1
plants	land plants	Frullaniaceae	*Frullania*					1/1
plants	land plants	Hemerocallidaceae	*Dianella brevipedunculata*			C		2/2
plants	land plants	Hemerocallidaceae	*Dianella caerulea var. producta*			C		1/1
plants	land plants	Hemerocallidaceae	*Dianella caerulea x Dianella congesta*			C		2/2
plants	land plants	Hypopterygiaceae	*Hypopterygium tamarisci*			C		1/1
plants	land plants	Iridaceae	*Patersonia fragilis*			C		1/1
plants	land plants	Johnsoniaceae	*Caesia parviflora*			C		1/1
plants	land plants	Laxmanniaceae	*Lomandra filiformis subsp. coriacea*			C		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	land plants	Leguminosae	*Acacia fimbriata*	Brisbane golden wattle		C		1/1
plants	land plants	Leguminosae	*Acacia juncifolia*			C		1/1
plants	land plants	Leguminosae	*Aeschynomene indica*	budda pea		C		1/1
plants	land plants	Leguminosae	*Pultenaea euchila*	orange pultenaea		C		1/1
plants	land plants	Loranthaceae	*Lysiana subfalcata*			C		1/1
plants	land plants	Monimiaceae	*Wilkiea macrophylla*	large-leaved wilkiea		C		1/1
plants	land plants	Myrsinaceae	*Aegiceras corniculatum*	river mangrove		C		1/1
plants	land plants	Myrsinaceae	*Myrsine howittiana*			C		1/1
plants	land plants	Myrtaceae	*Eucalyptus fibrosa subsp. fibrosa*			C		1/1
plants	land plants	Myrtaceae	*Eucalyptus propinqua*	small-fruited grey gum		C		1/1
plants	land plants	Myrtaceae	*Eucalyptus resinifera*	red mahogany		C		1/1
plants	land plants	Myrtaceae	*Eucalyptus tereticornis subsp. basaltica*			C		1/1
plants	land plants	Myrtaceae	*Lophostemon confertus x Lophostemon suaveolens*			C		1/1
plants	land plants	Myrtaceae	*Rhodomyrtus psidioides*	native guava		CR	CE	1/1
plants	land plants	Nephrolepidaceae	*Nephrolepis cordifolia*	fishbone fern		C		1/1
plants	land plants	Oleaceae	*Chionanthus ramiflorus*	northern olive		C		1/1
plants	land plants	Oleaceae	*Notelaea punctata*			C		1/1
plants	land plants	Phyllanthaceae	*Poranthera microphylla*	small poranthera		C		1/1
plants	land plants	Piperaceae	*Peperomia leptostachya*			C		1/1
plants	land plants	Poaceae	*Entolasia stricta*	wiry panic		C		1/1
plants	land plants	Poaceae	*Ottochloa gracillima*	pademelon grass		C		1/1
plants	land plants	Poaceae	*Paspalidium distans*	shotgrass		C		2/2
plants	land plants	Poaceae	*Poa labillardierei var. labillardierei*	tussock grass		C		1/1
plants	land plants	Proteaceae	*Macadamia integrifolia*	macadamia nut		V	V	1/1
plants	land plants	Proteaceae	*Persoonia stradbrokensis*			C		1/1
plants	land plants	Ranunculaceae	*Clematis glycinoides*			C		1/1
plants	land plants	Restionaceae	*Lepyrodia imitans*			C		1/1
plants	land plants	Rhizophoraceae	*Ceriops australis*			C		1/1
plants	land plants	Rhizophoraceae	*Rhizophora stylosa*	spotted mangrove		C		1/1
plants	land plants	Rubiaceae	*Opercularia diphylla*			C		1/1
plants	land plants	Rutaceae	*Acronychia laevis*	glossy acronychia		C		2/2
plants	land plants	Sapindaceae	*Alectryon connatus*	grey birds-eye		C		1/1
plants	land plants	Schizaeaceae	*Schizaea bifida*	forked comb fern		SL		1/1
plants	land plants	Sematophyllaceae	*Sematophyllum subhumile*			C		1/1
plants	land plants	Solanaceae	*Solanum stelligerum*	devil's needles		C		1/1
plants	land plants	Sparrmanniaceae	*Corchorus cunninghamii*			E	E	3/3
plants	land plants	Sparrmanniaceae	*Grewia latifolia*	dysentery plant		C		1/1
plants	land plants	Verbenaceae	*Lantana*					1
plants	land plants	Violaceae	*Viola hederacea*			C		1/1

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992.*
The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.*
The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas).
This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon.
This number is output as 999 if it equals or exceeds this value.

APPENDIX B
MSES Reports

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 12 Plan: RP53653

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

Disclaimer

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.

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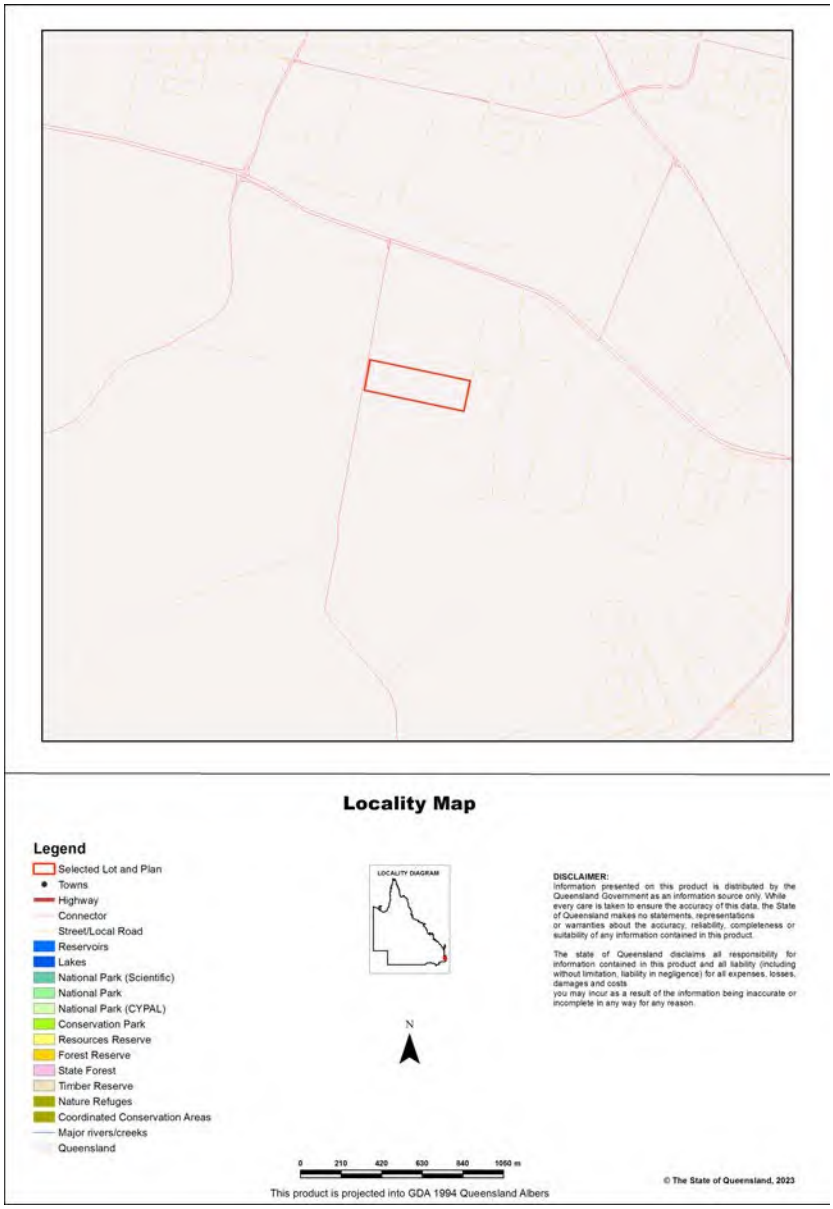
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 12 Plan: RP53653

Size (ha)	8.45
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;

- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;

- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.0 ha	0.04%
7b Special least concern animals	0.18 ha	2.1%
7c i Koala habitat area - core (SEQ)	0.0 ha	0.05%
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0 %
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	0.2 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.05%
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Values are present

7b. Special least concern animals

Values are present

7c i. Koala habitat area - core (SEQ)

Values are present

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	Core
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

(no results)

Special least concern animal species records

Scientific name	Common name	Migratory status
Tachyglossus aculeatus	short-beaked echidna	

Scientific name	Common name	Migratory status
Ornithorhynchus anatinus	platypus	

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:

https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:

https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/

For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:

https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Not applicable

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Not applicable

8e. Regulated Vegetation - intersecting a watercourse**

A vegetation management watercourse is mapped as present

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Regulated vegetation map category	Map number
B	9542

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

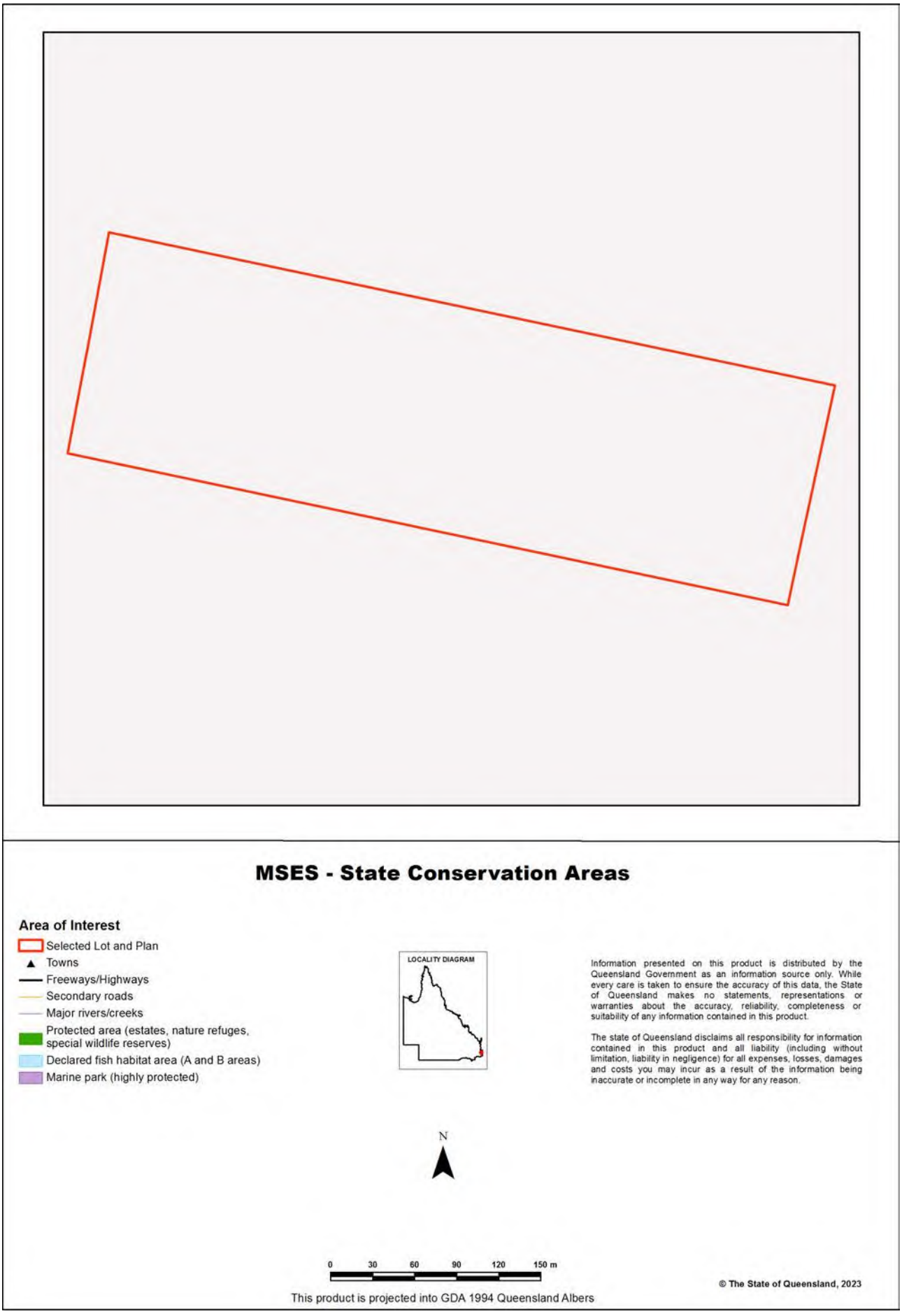
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

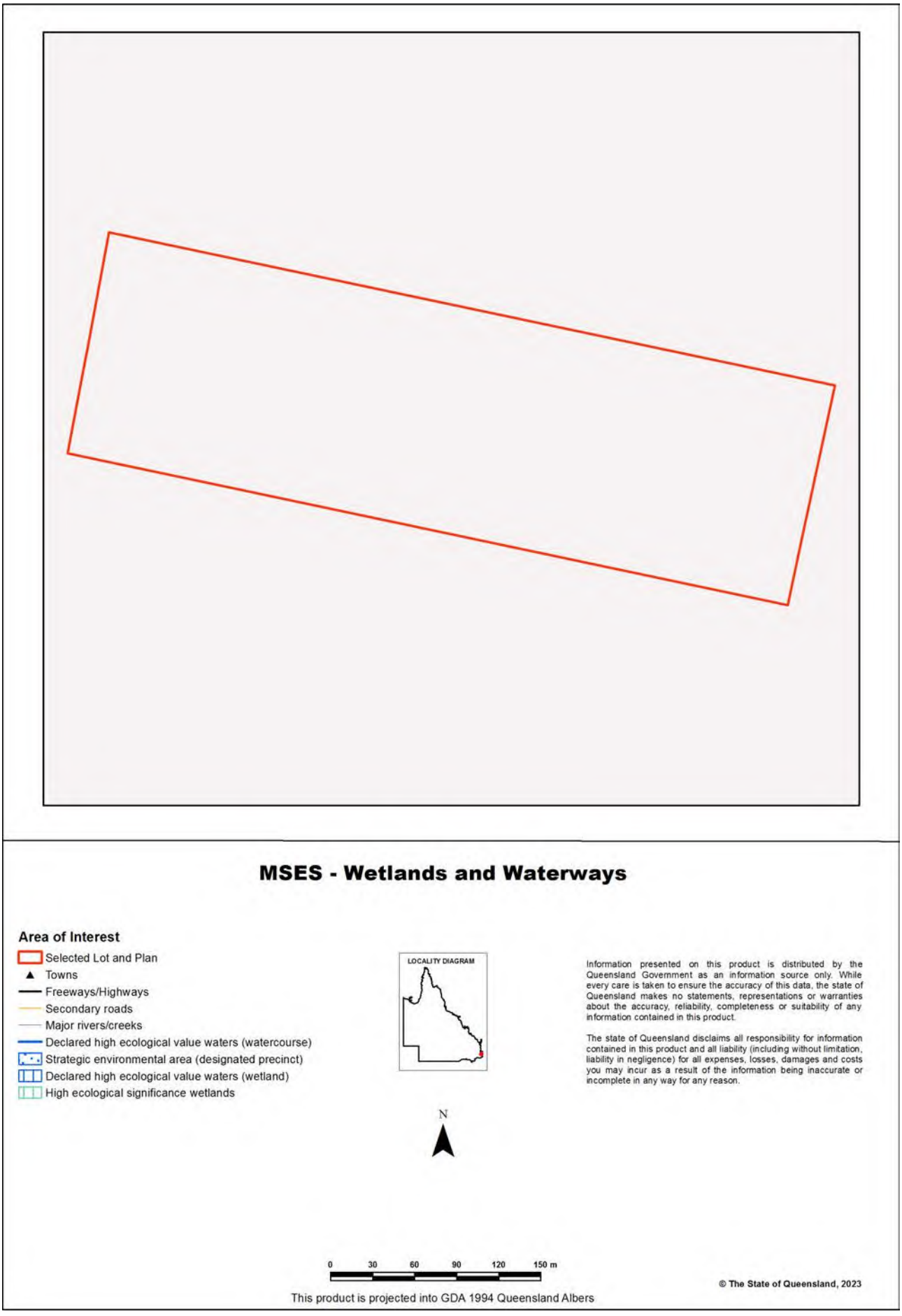
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

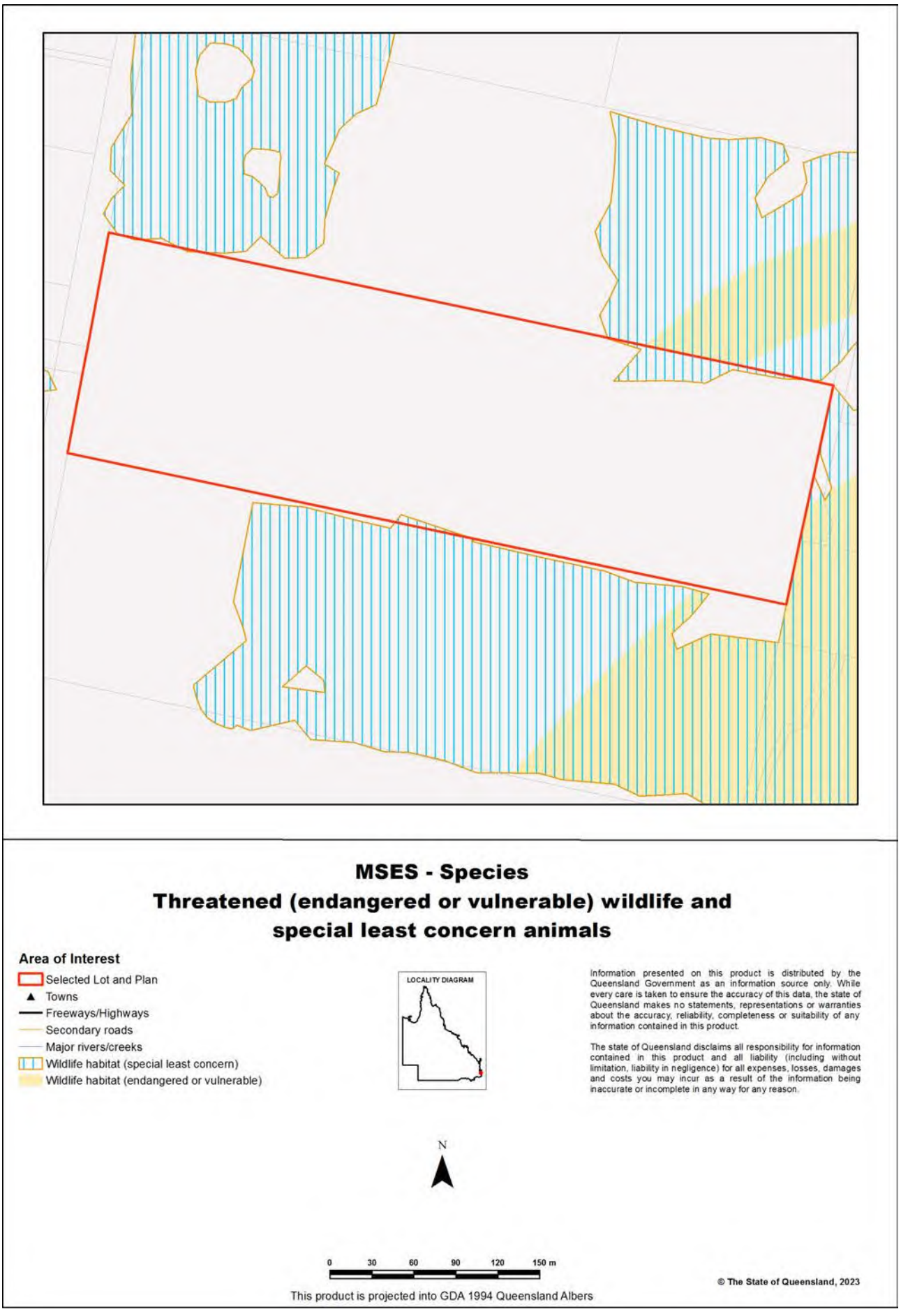
Map 1 - MSES - State Conservation Areas



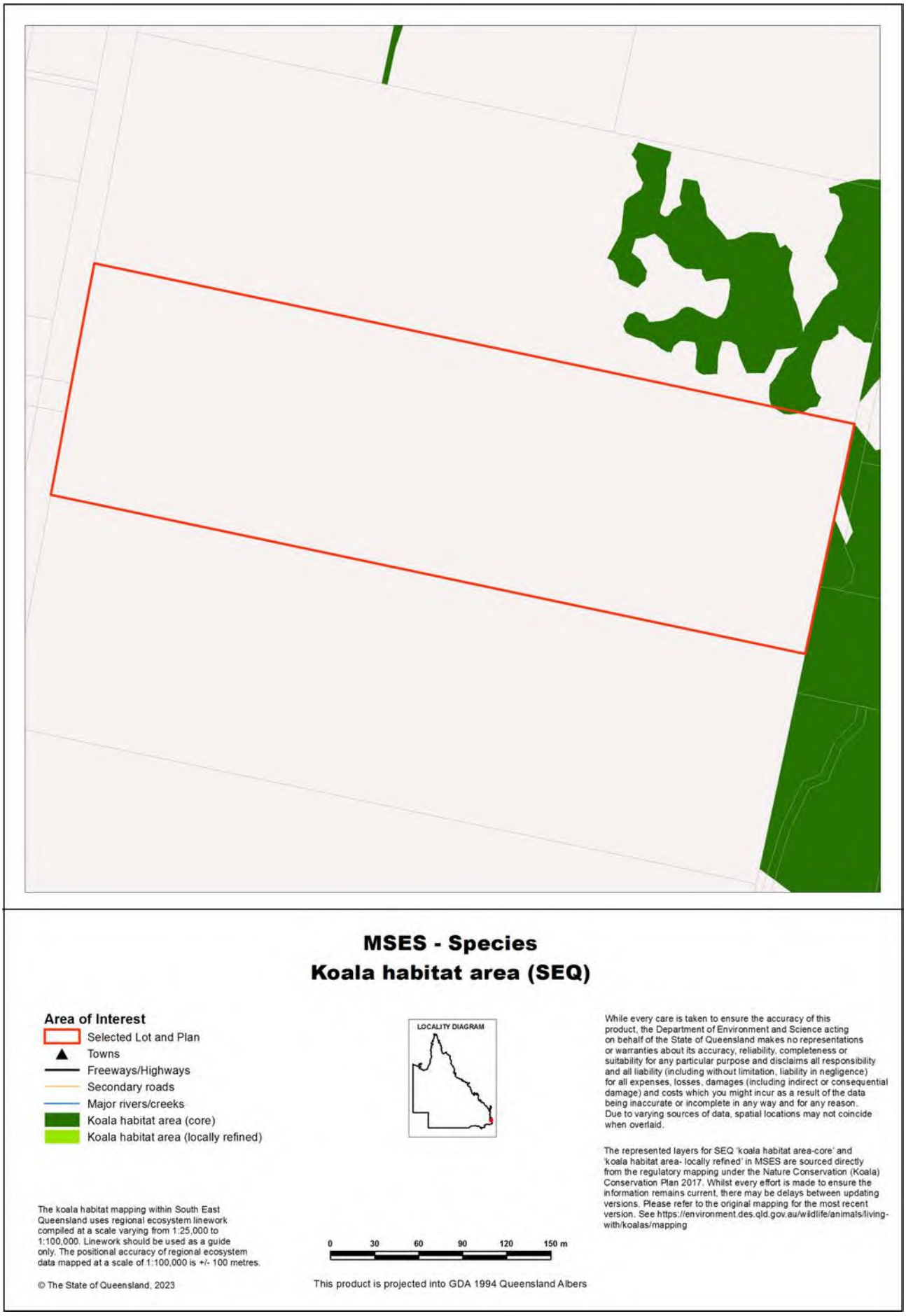
Map 2 - MSES - Wetlands and Waterways



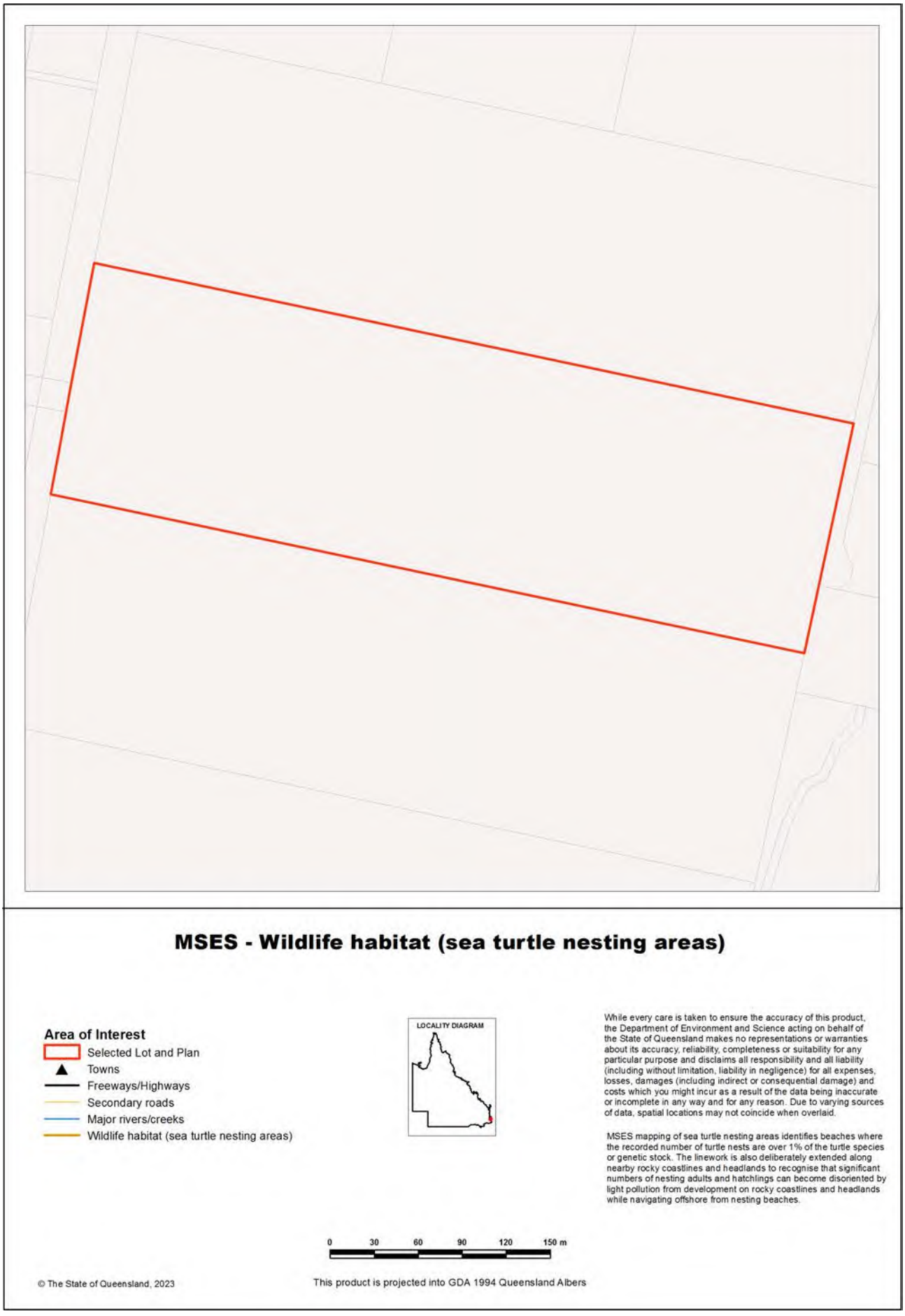
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



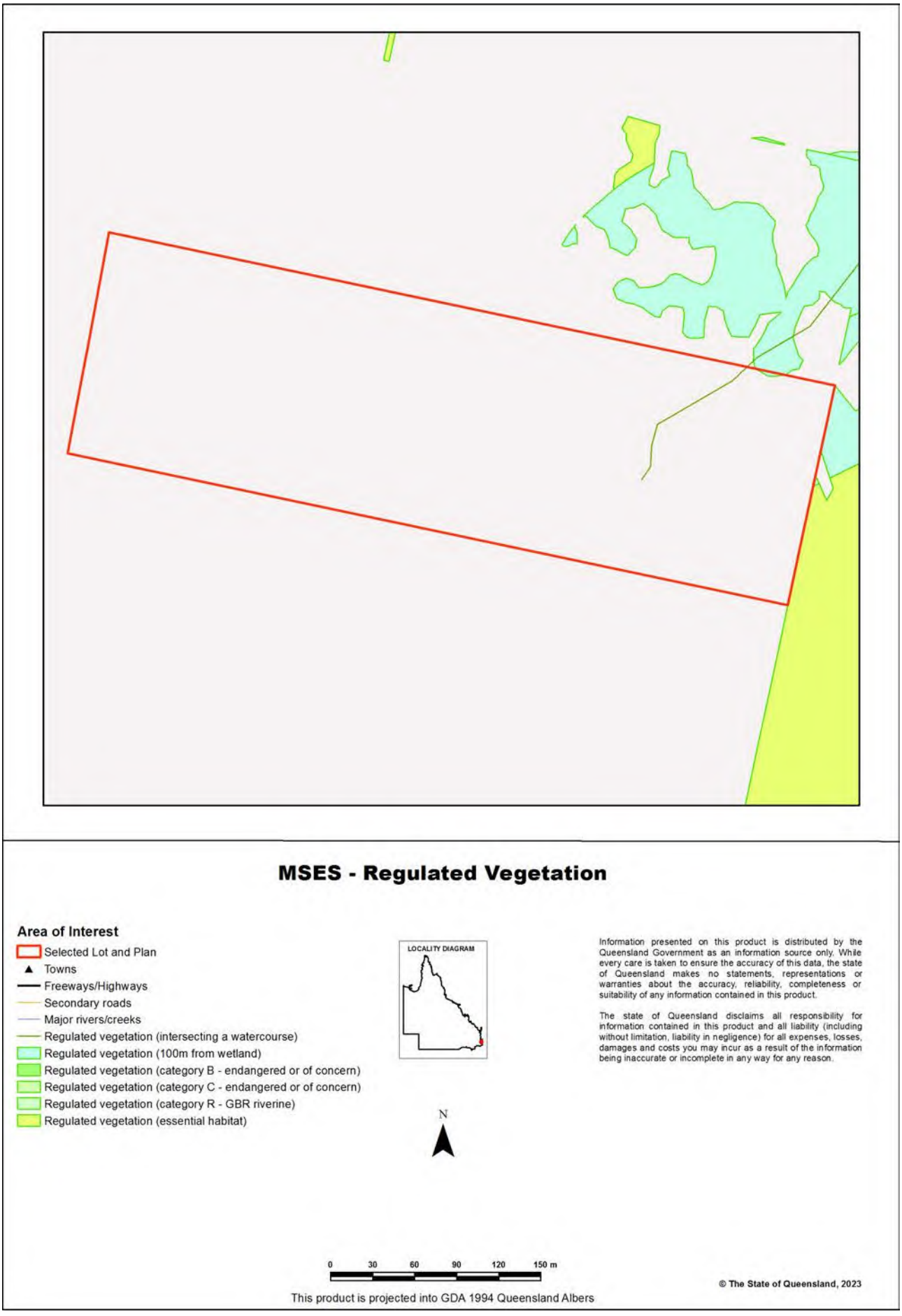
Map 3b - MSES - Species - Koala habitat area (SEQ)



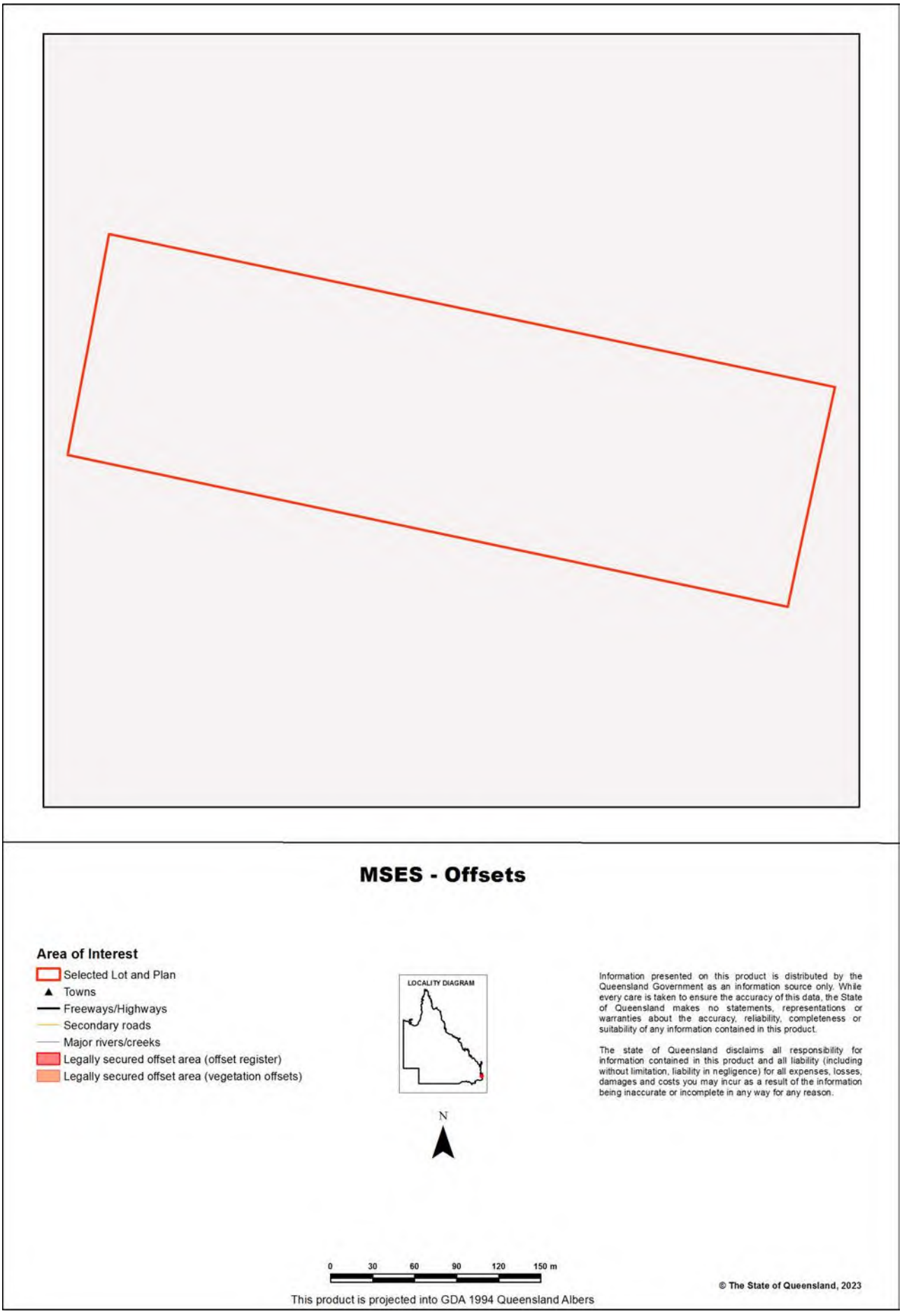
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



Appendices

Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html .

Appendix 2 - Source Data

The datasets listed below are available on request from:

http://qldspatial.information.qld.gov.au/catalogue/custom/index.page

- Matters of State environmental significance

Note: MSES mapping is not based on new or unique data. The primary mapping product draws data from a number of underlying environment databases and geo-referenced information sources. MSES mapping is a versioned product that is updated generally on a twice-yearly basis to incorporate the changes to underlying data sources. Several components of MSES mapping made for the current version may differ from the current underlying data sources. To ensure accuracy, or proper representation of MSES values, it is strongly recommended that users refer to the underlying data sources and review the current definition of MSES in the State Planning Policy, before applying the MSES mapping.

Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	**current QSpatial data (http://qspatial.information.qld.gov.au)**
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland
Marine Park-Highly Protected Zones	Moreton Bay marine park zoning 2008
Fish Habitat Areas	Queensland fish habitat areas
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas
HES wetlands	Map of Queensland Wetland Environmental Values
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records
VMA regulated regional ecosystems	Vegetation management regional ecosystem and remnant map
VMA Essential Habitat	Vegetation management - essential habitat map
VMA Wetlands	Vegetation management wetlands map
Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES
Regulated Vegetation Map	Vegetation management - regulated vegetation management map

Appendix 3 - Acronyms and Abbreviations

AOI	- Area of Interest
DES	- Department of Environment and Science
EP Act	- *Environmental Protection Act 1994*
EPP	- Environmental Protection Policy
GDA94	- Geocentric Datum of Australia 1994
GEM	- General Environmental Matters
GIS	- Geographic Information System
MSES	- Matters of State Environmental Significance
NCA	- *Nature Conservation Act 1992*
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 13 Plan: RP53653

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

Disclaimer

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.

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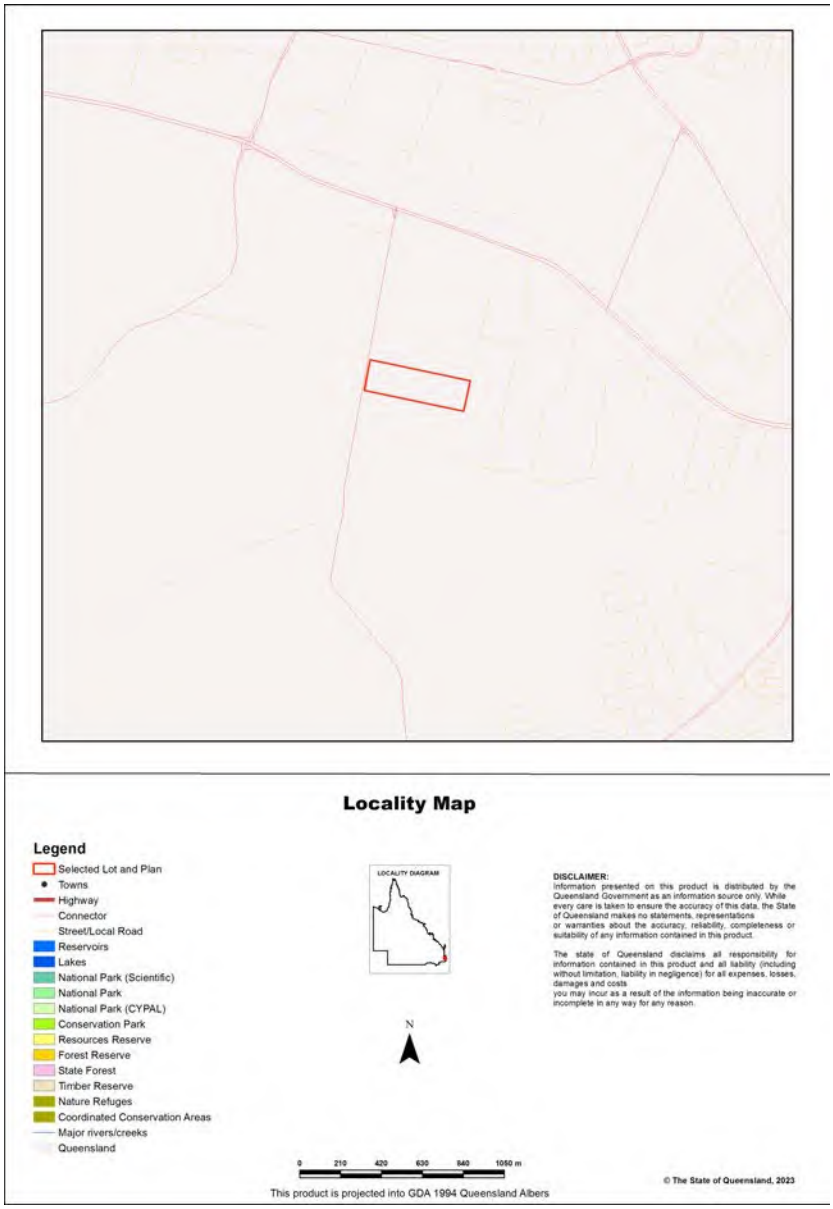
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 13 Plan: RP53653

Size (ha)	8.39
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;

- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;

- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	1.57 ha	18.7%
7b Special least concern animals	5.73 ha	68.3%
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0 %
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0 %
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	0.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Values are present

7b. Special least concern animals

Values are present

7c i. Koala habitat area - core (SEQ)

Not applicable

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

Scientific name	Common name	NCA status	EPBC status	Migratory status
Adelotus brevis	tusked frog	V		

Special least concern animal species records

Scientific name	Common name	Migratory status
Tachyglossus aculeatus	short-beaked echidna	
Ornithorhynchus anatinus	platypus	

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:
https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:
https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/
For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:
https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Not applicable

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Not applicable

8e. Regulated Vegetation - intersecting a watercourse**

(no results)

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

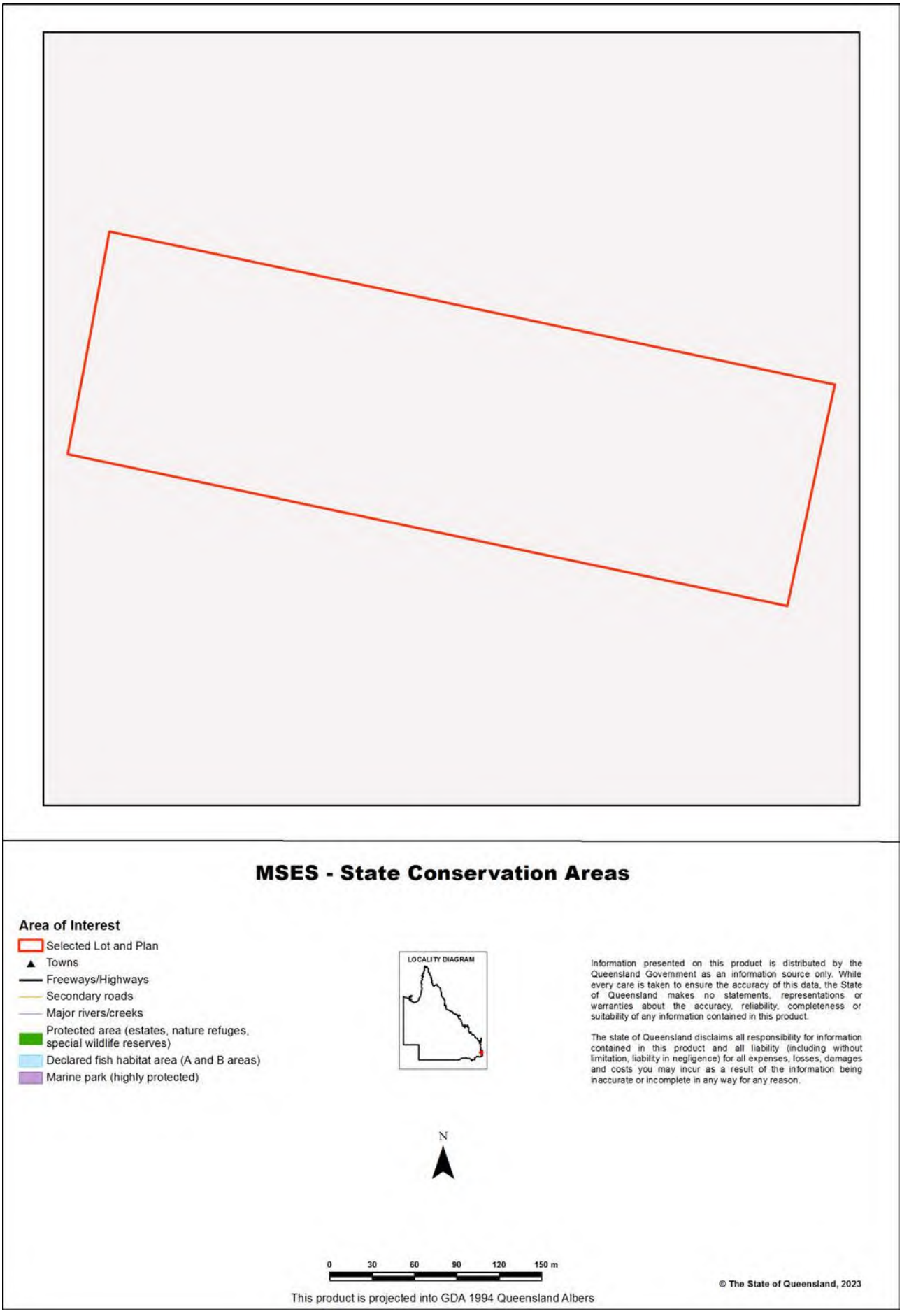
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

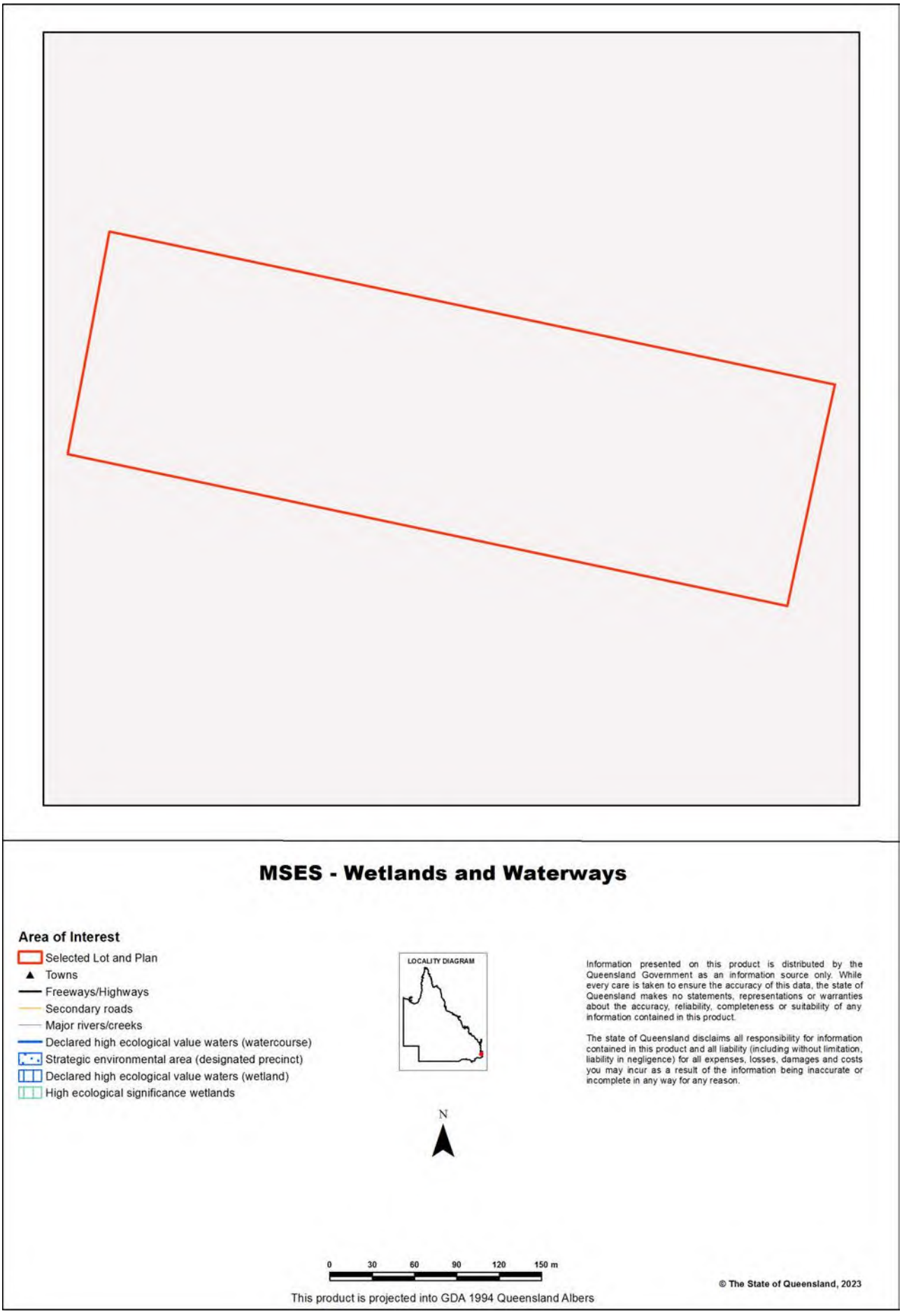
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

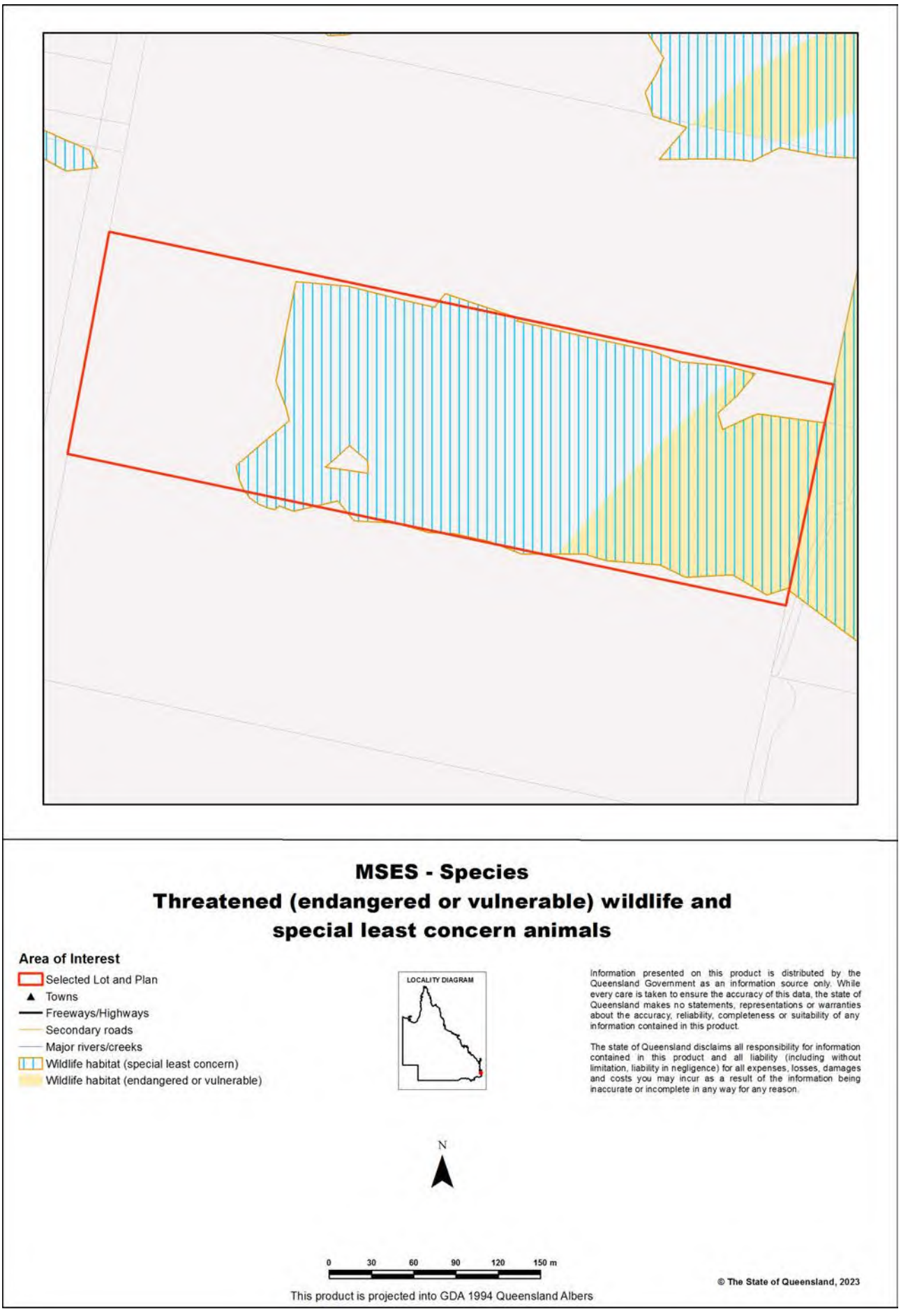
Map 1 - MSES - State Conservation Areas



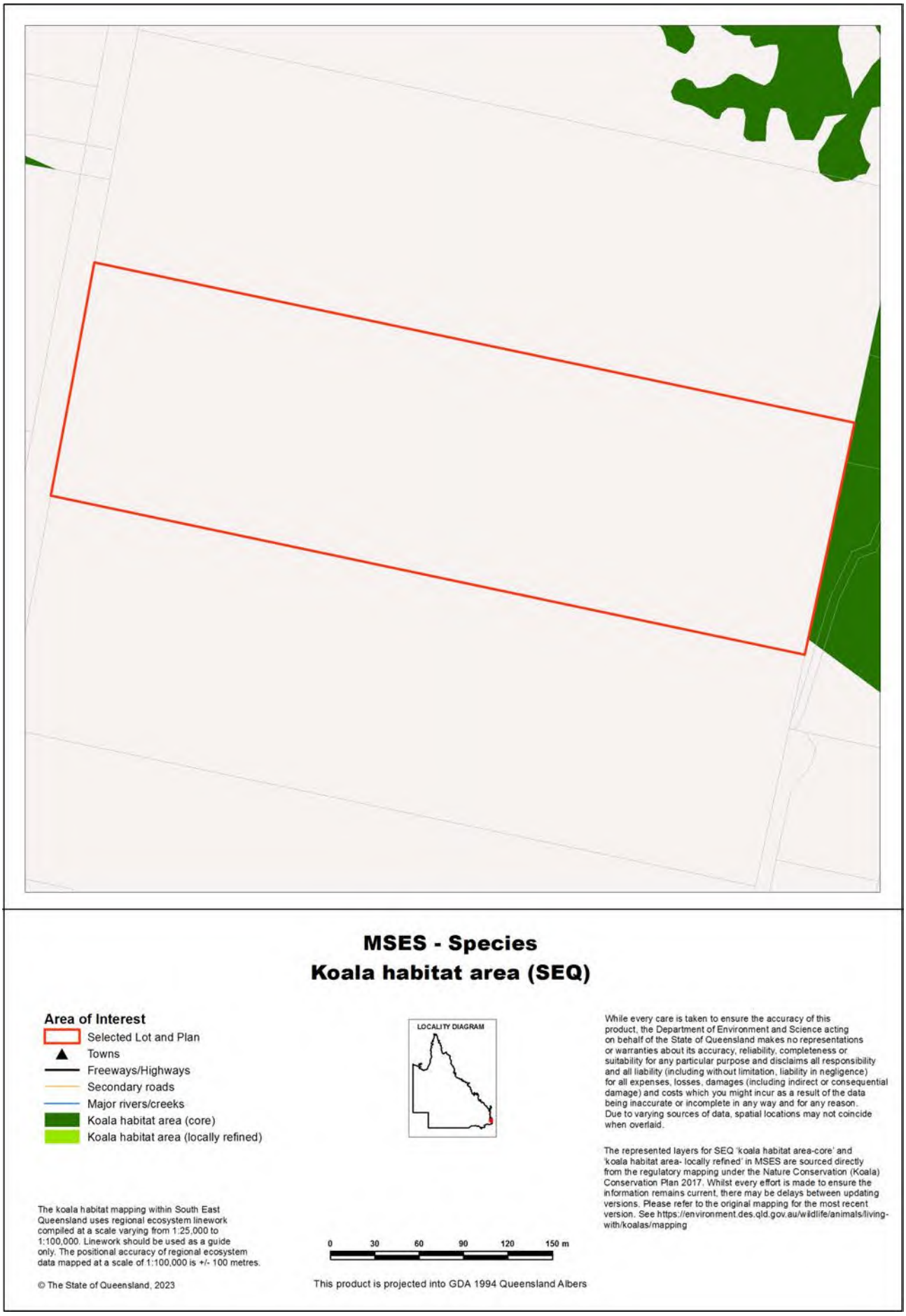
Map 2 - MSES - Wetlands and Waterways



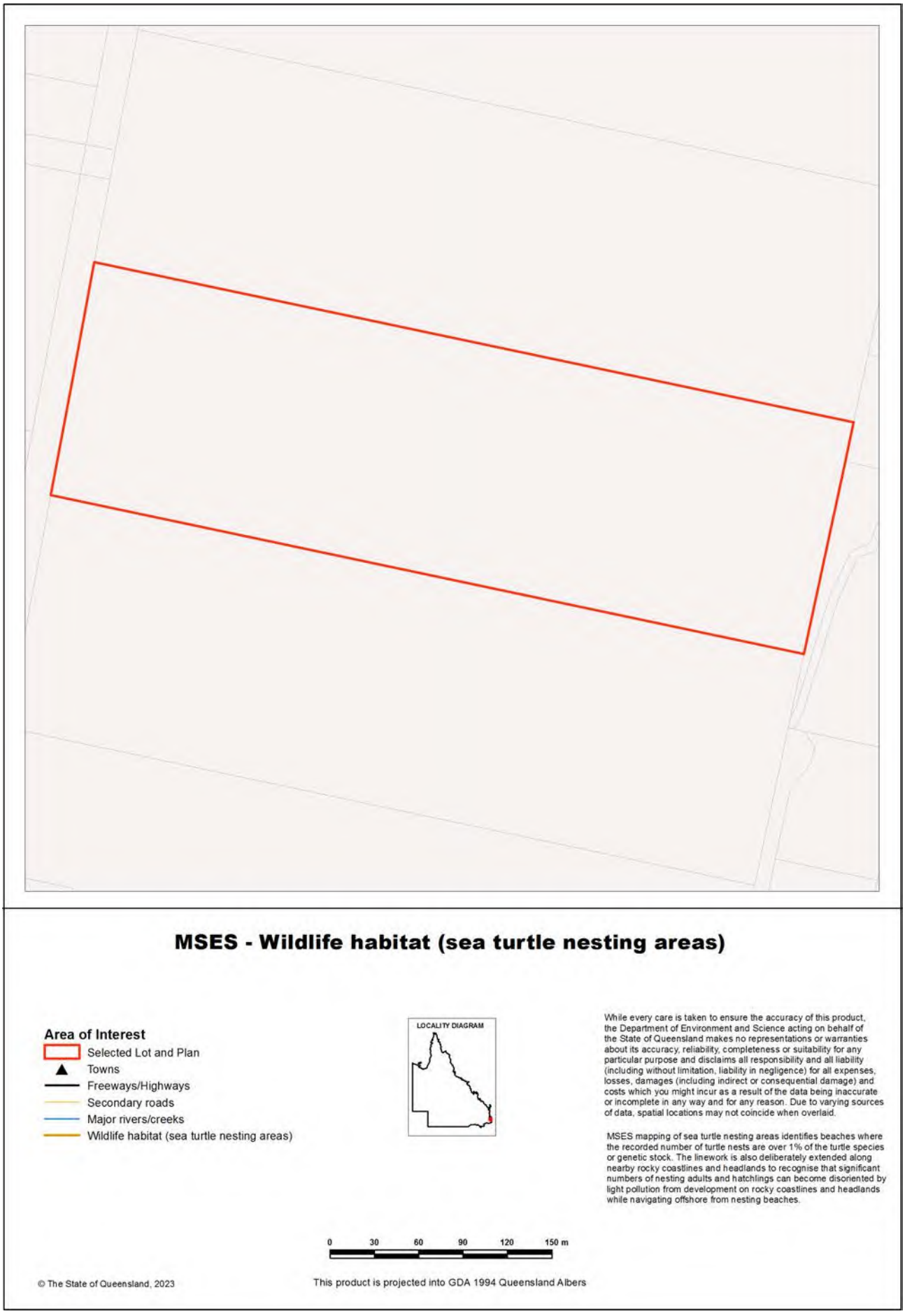
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



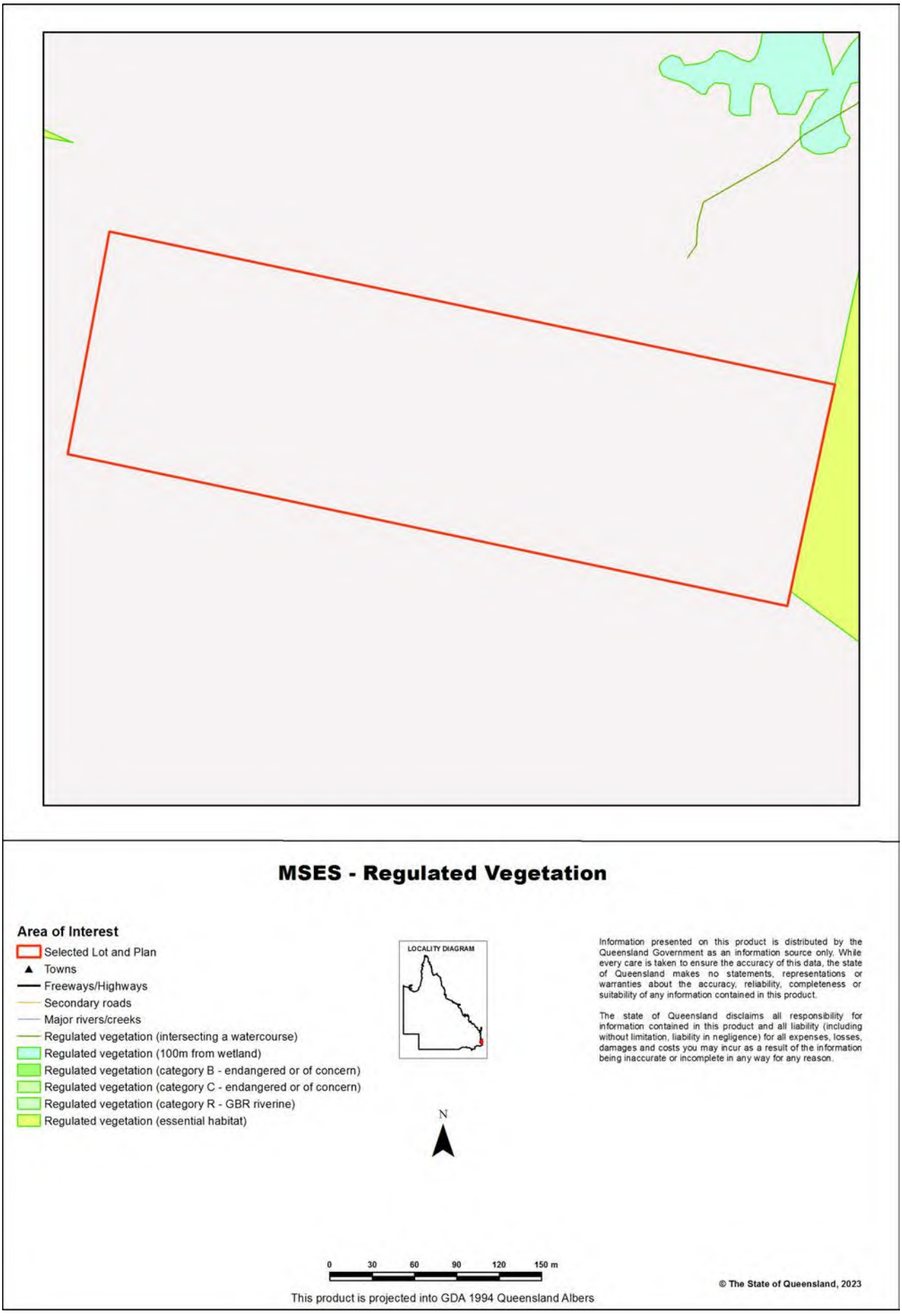
Map 3b - MSES - Species - Koala habitat area (SEQ)



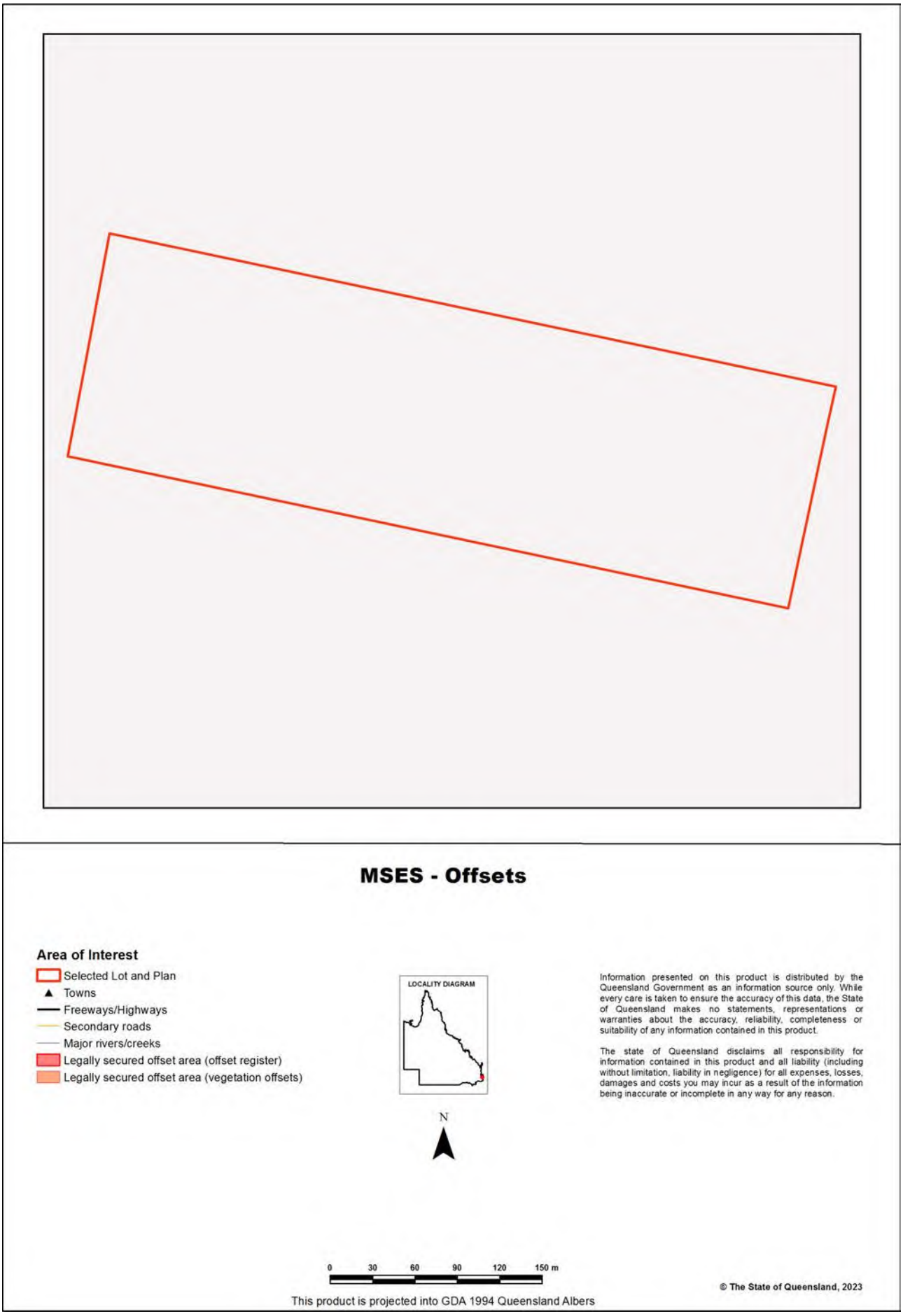
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



Appendices

Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html .

Appendix 2 - Source Data

The datasets listed below are available on request from:

http://qldspatial.information.qld.gov.au/catalogue/custom/index.page

- Matters of State environmental significance

Note: MSES mapping is not based on new or unique data. The primary mapping product draws data from a number of underlying environment databases and geo-referenced information sources. MSES mapping is a versioned product that is updated generally on a twice-yearly basis to incorporate the changes to underlying data sources. Several components of MSES mapping made for the current version may differ from the current underlying data sources. To ensure accuracy, or proper representation of MSES values, it is strongly recommended that users refer to the underlying data sources and review the current definition of MSES in the State Planning Policy, before applying the MSES mapping.

Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	**current QSpatial data (http://qspatial.information.qld.gov.au)**
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland
Marine Park-Highly Protected Zones	Moreton Bay marine park zoning 2008
Fish Habitat Areas	Queensland fish habitat areas
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas
HES wetlands	Map of Queensland Wetland Environmental Values
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records
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Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES
Regulated Vegetation Map	Vegetation management - regulated vegetation management map

Appendix 3 - Acronyms and Abbreviations

AOI	- Area of Interest
DES	- Department of Environment and Science
EP Act	- *Environmental Protection Act 1994*
EPP	- Environmental Protection Policy
GDA94	- Geocentric Datum of Australia 1994
GEM	- General Environmental Matters
GIS	- Geographic Information System
MSES	- Matters of State Environmental Significance
NCA	- *Nature Conservation Act 1992*
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 14 Plan: RP53653

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

Disclaimer

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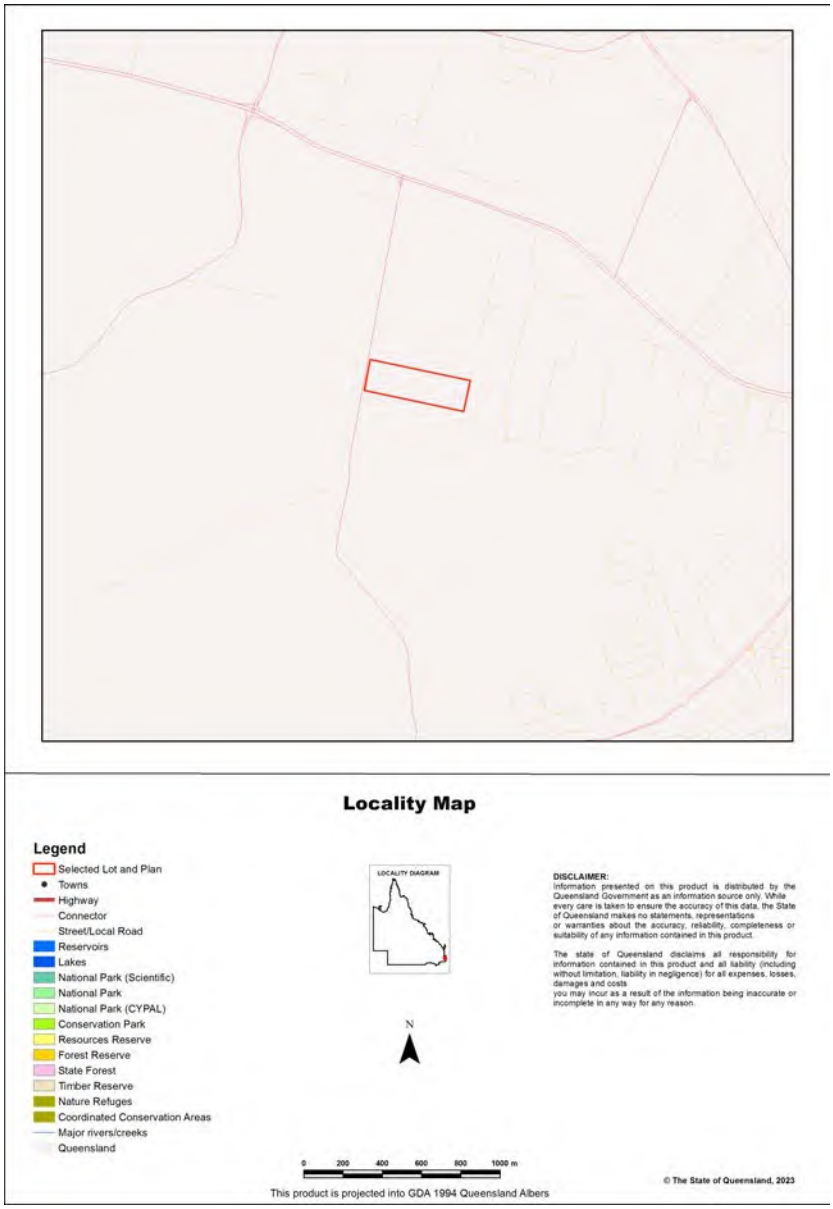
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 14 Plan: RP53653

Size (ha)	8.32
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;

- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;

- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.0 ha	0.0 %
7b Special least concern animals	0.04 ha	0.54%
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0 %
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0 %
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	0.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Not applicable

7b. Special least concern animals

Values are present

7c i. Koala habitat area - core (SEQ)

Not applicable

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

(no results)

Special least concern animal species records

Scientific name	Common name	Migratory status
Tachyglossus aculeatus	short-beaked echidna	

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:
https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:
https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/
For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:
https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Not applicable

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Not applicable

8e. Regulated Vegetation - intersecting a watercourse**

(no results)

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

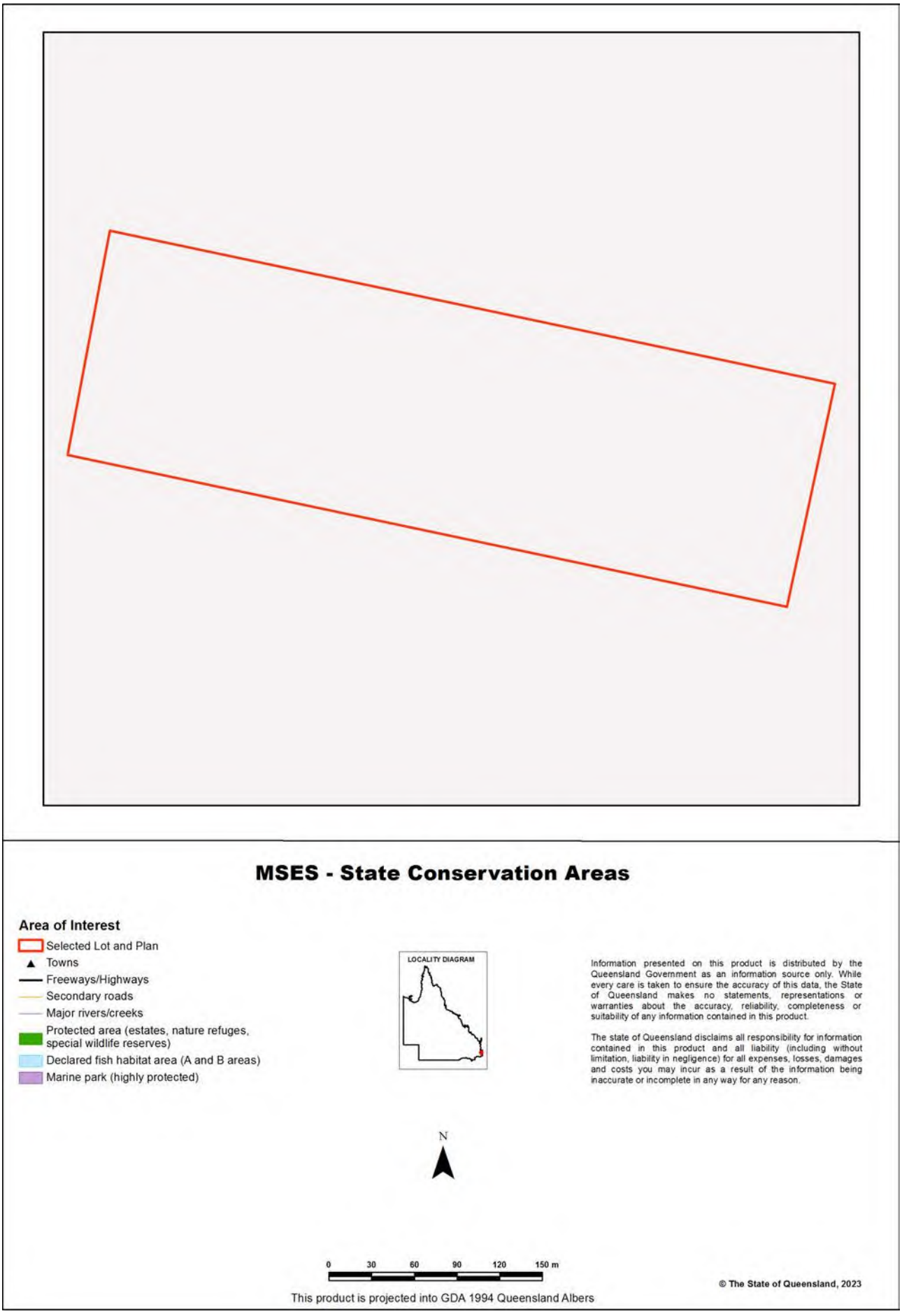
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

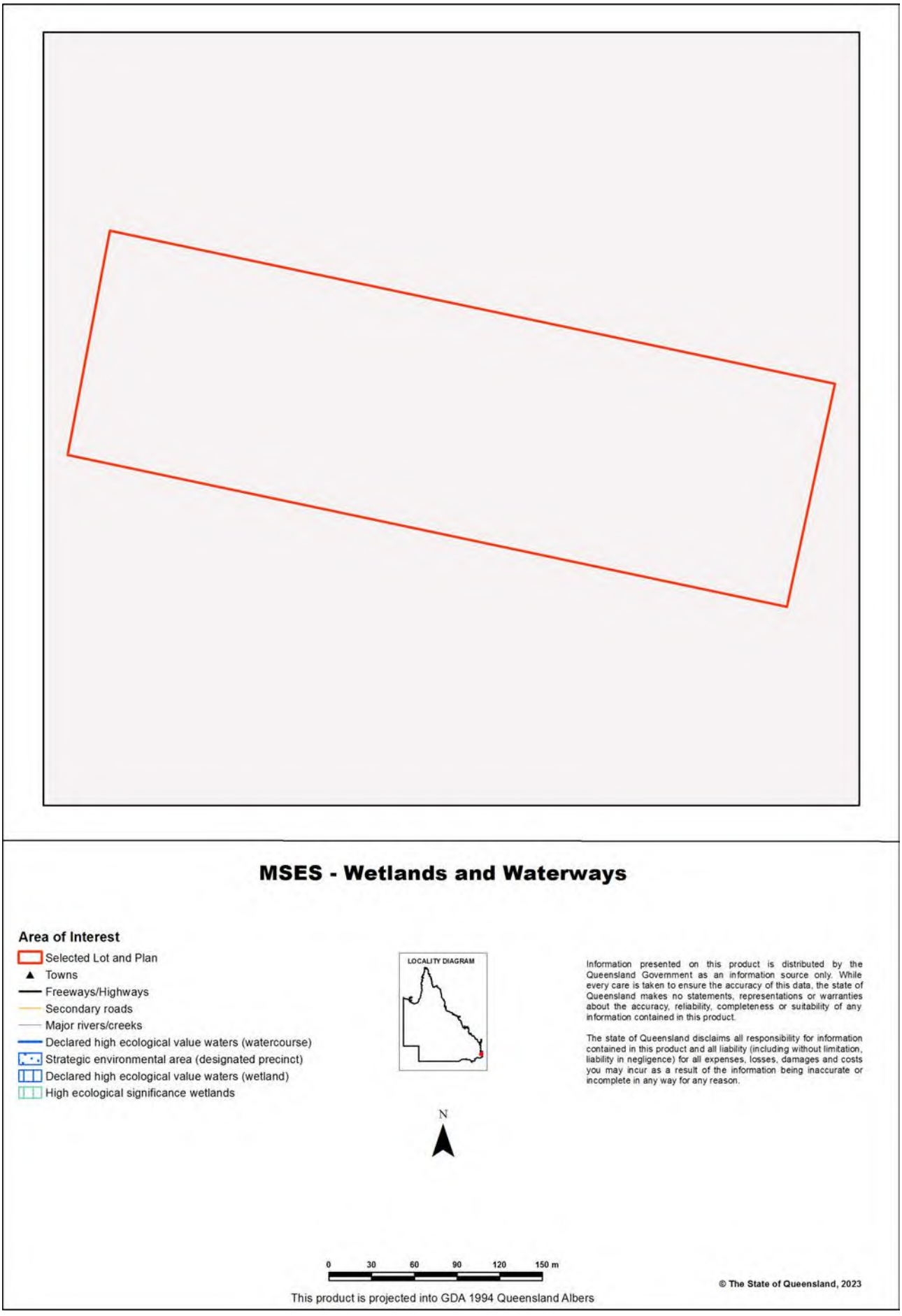
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

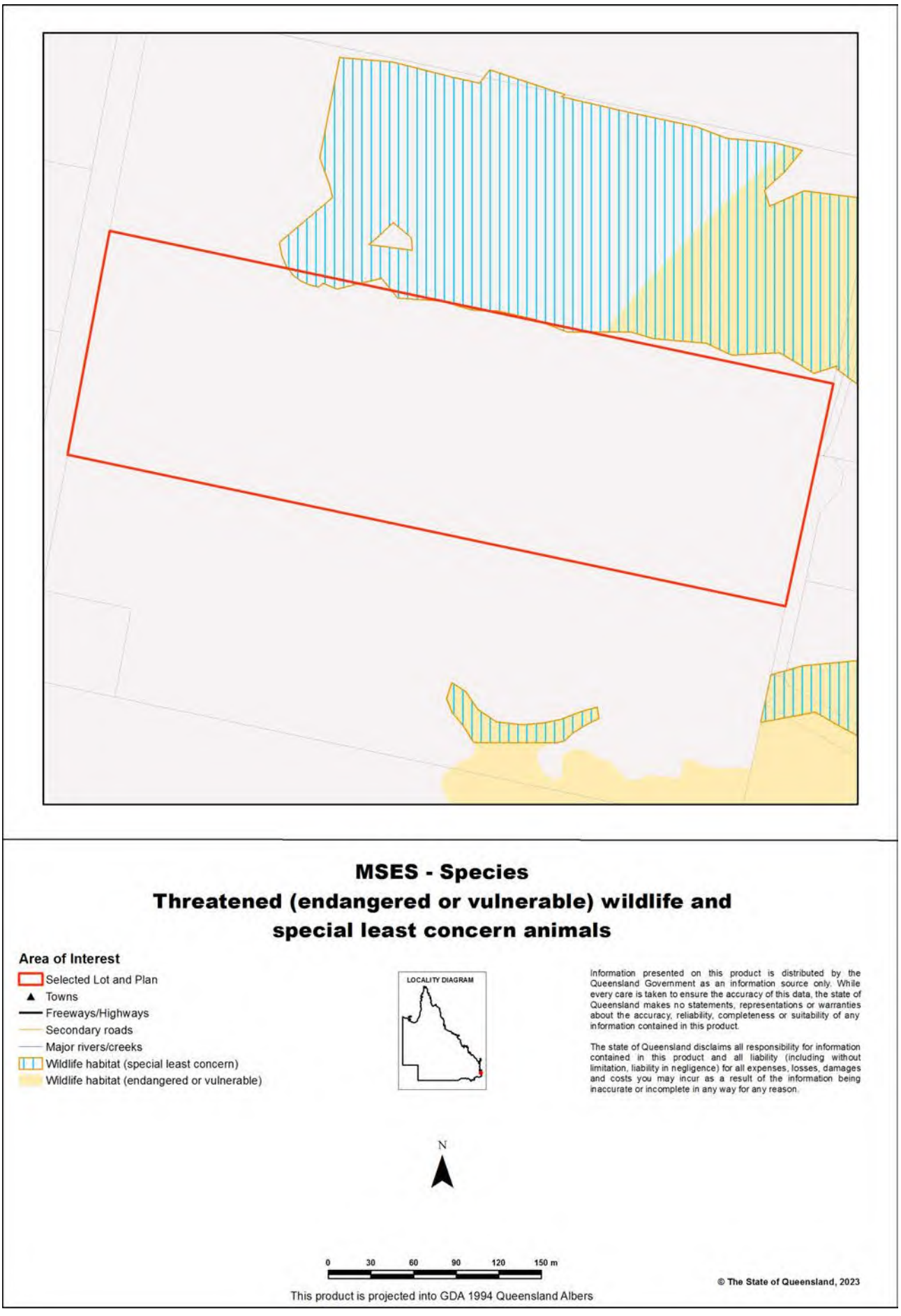
Map 1 - MSES - State Conservation Areas



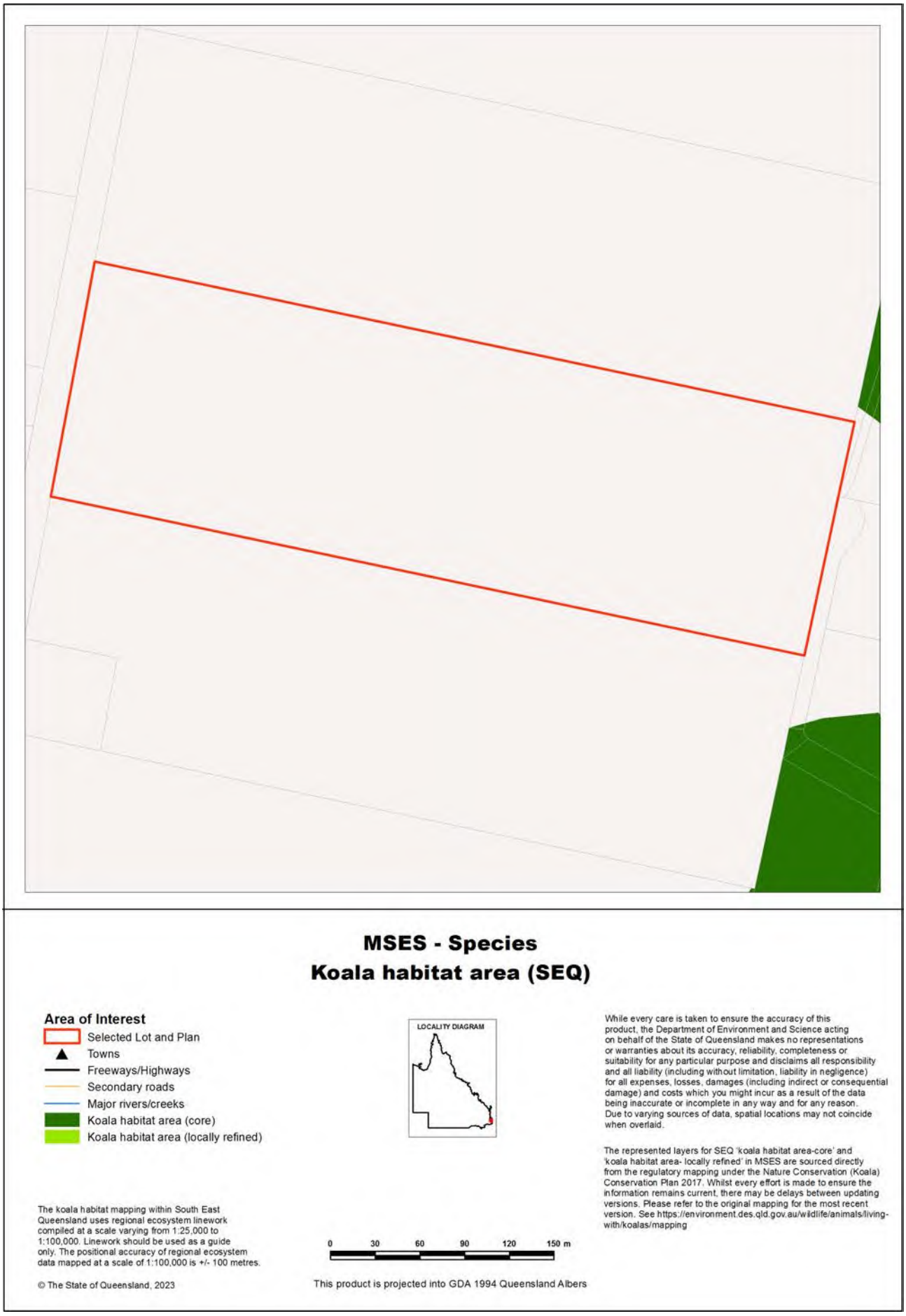
Map 2 - MSES - Wetlands and Waterways



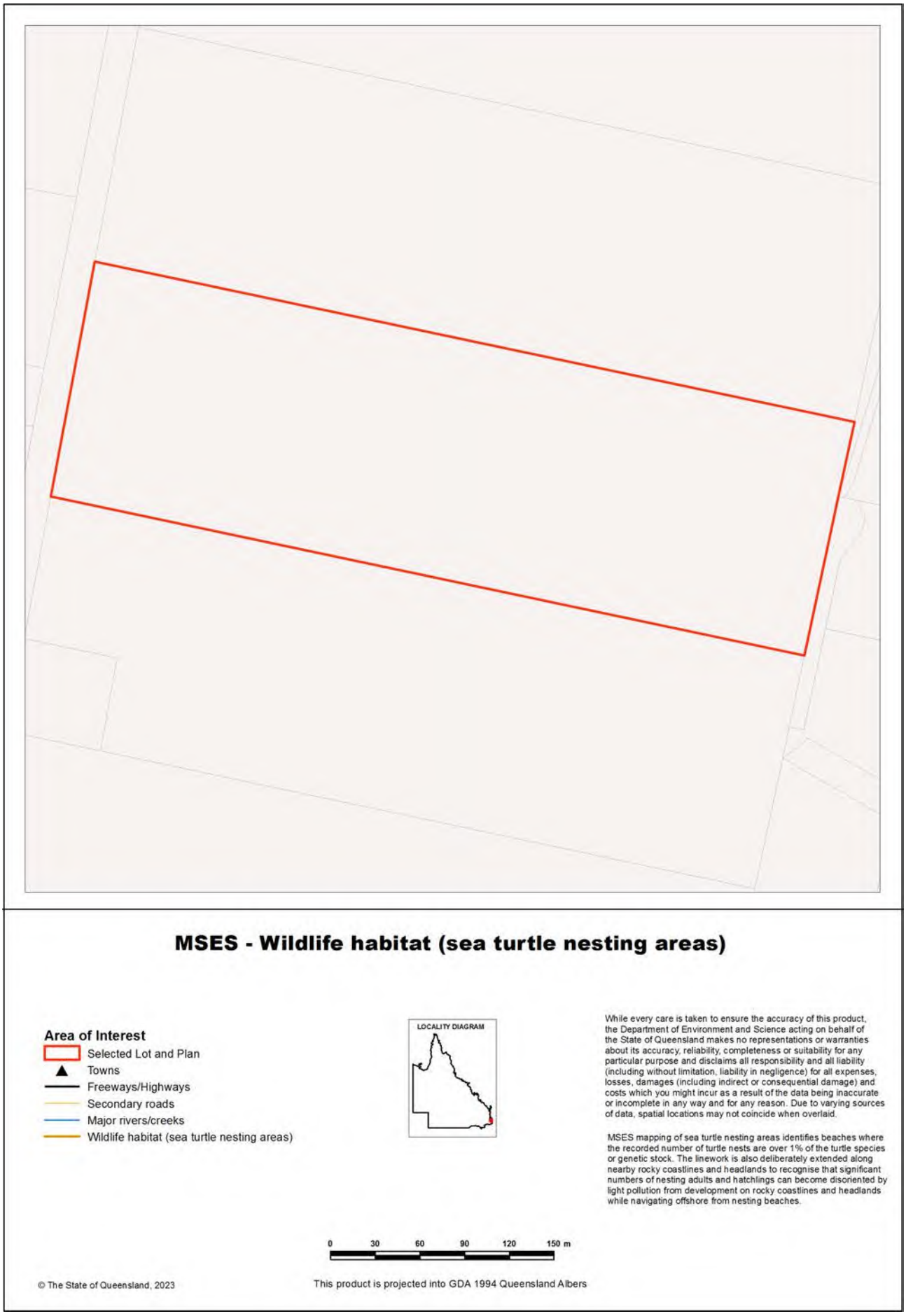
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



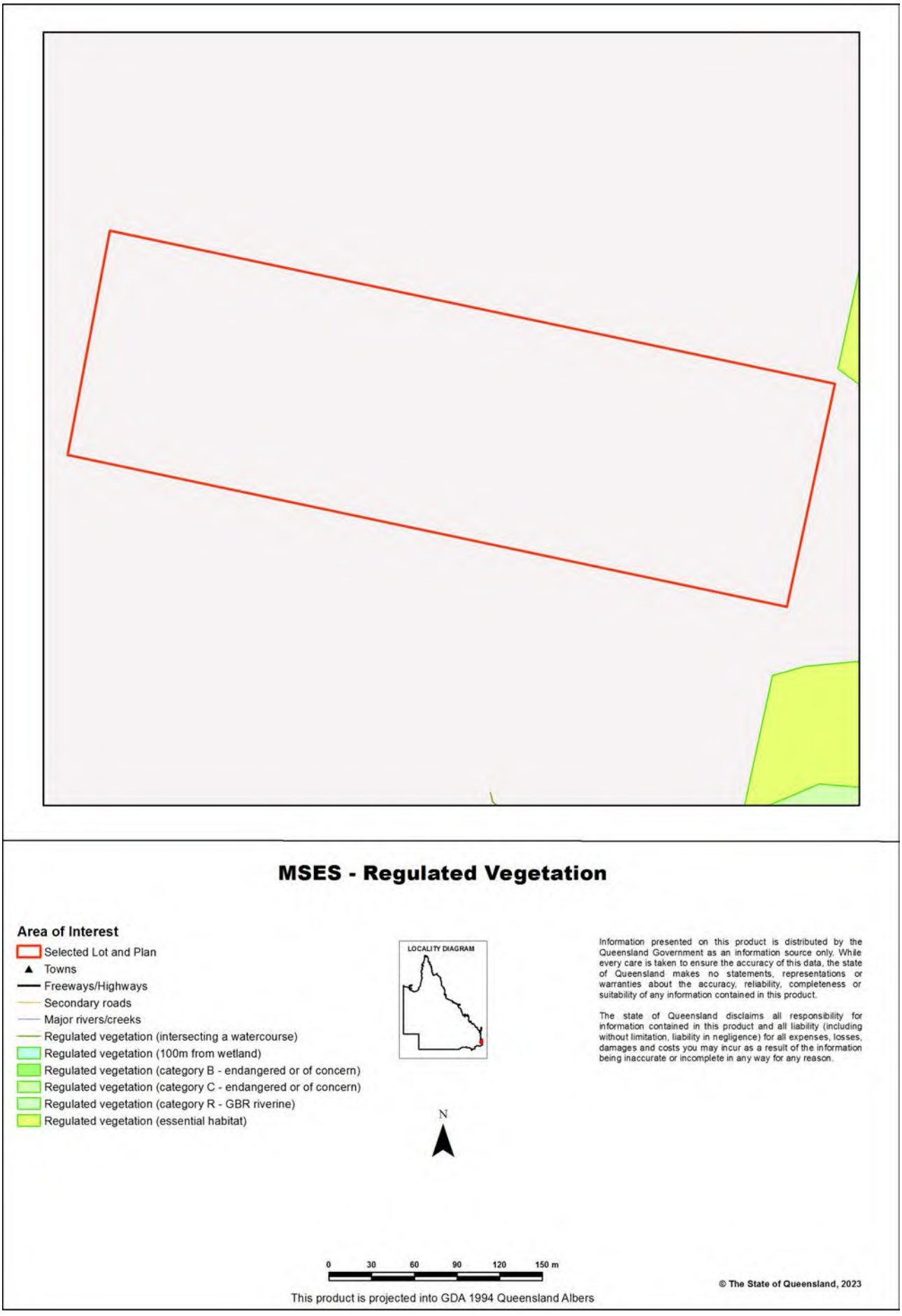
Map 3b - MSES - Species - Koala habitat area (SEQ)



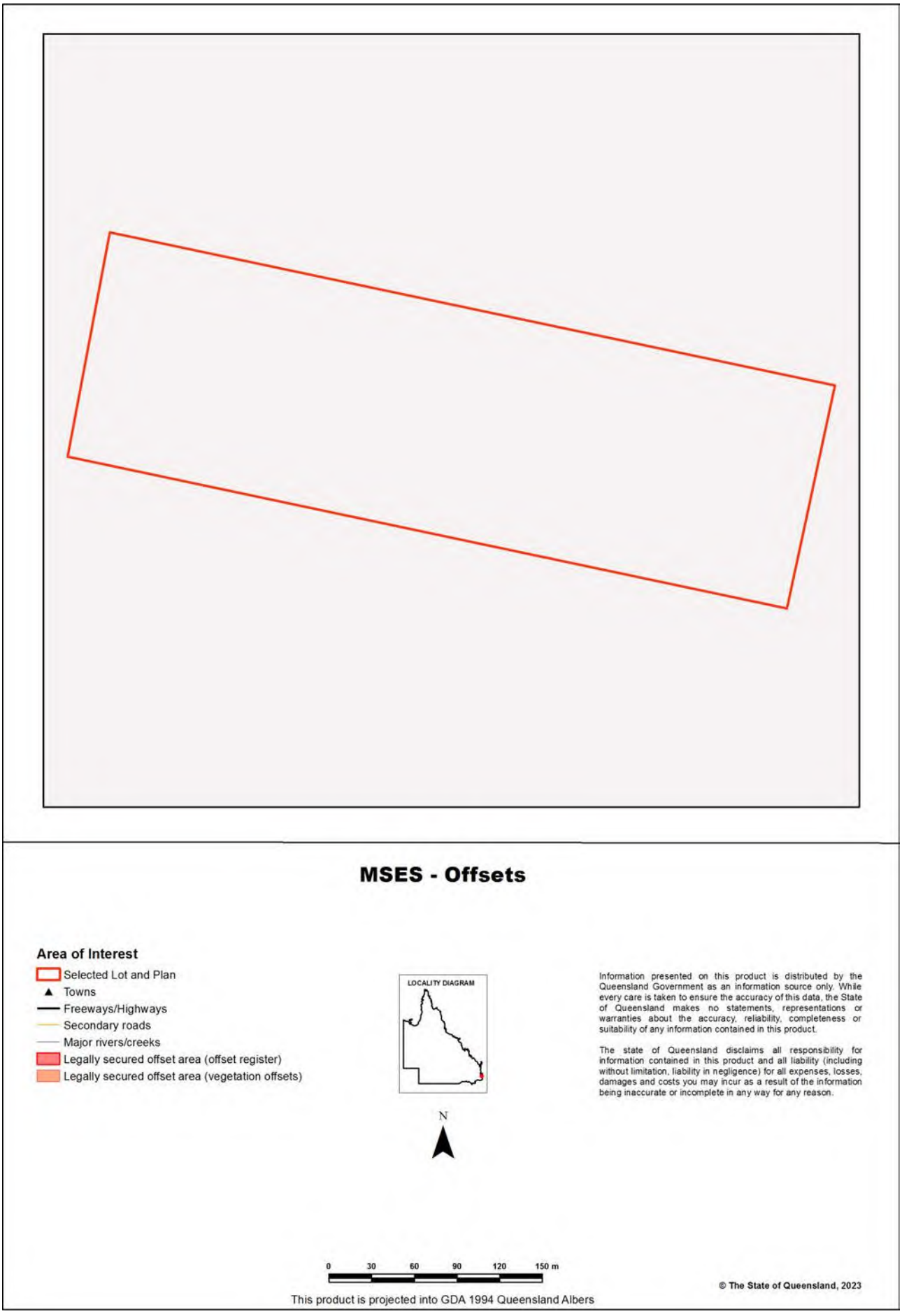
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



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GEM	- General Environmental Matters
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MSES	- Matters of State Environmental Significance
NCA	- *Nature Conservation Act 1992*
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 1 Plan: RP128089

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

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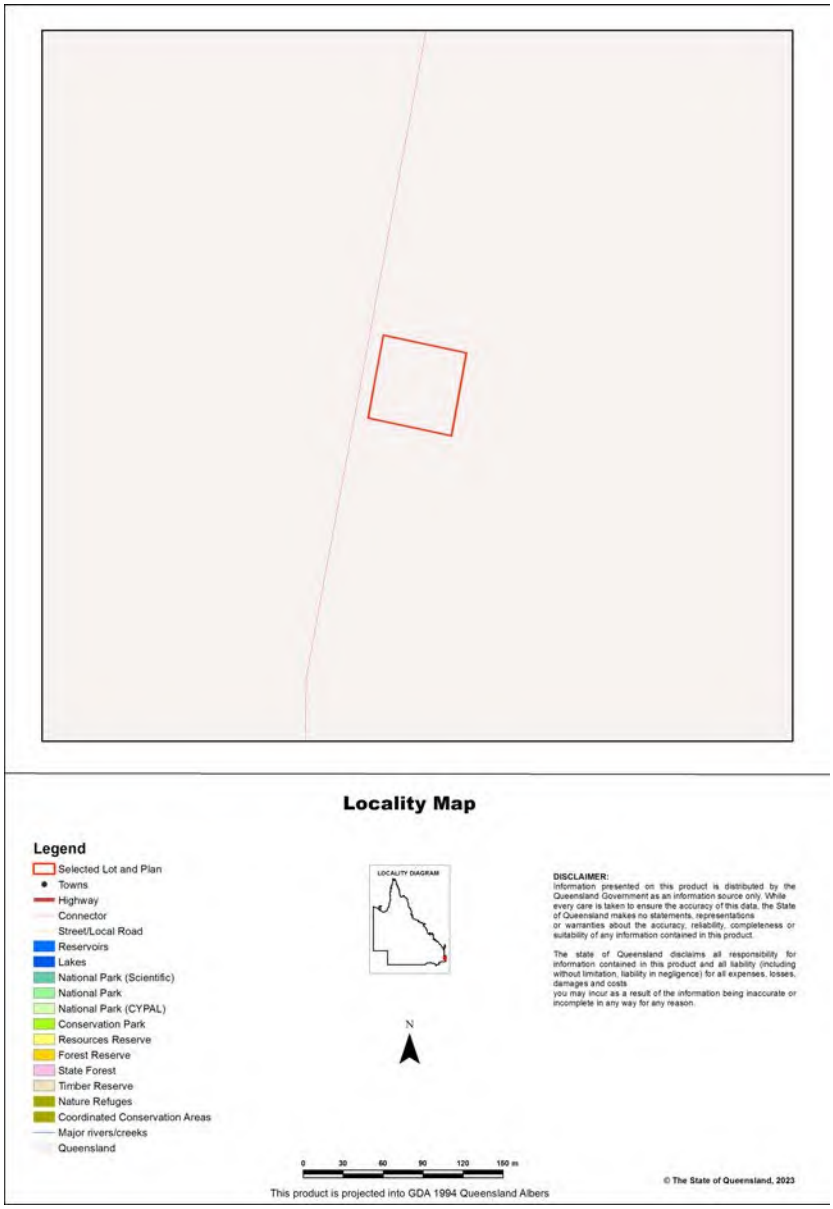
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 1 Plan: RP128089

Size (ha)	0.4
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

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- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.0 ha	0.0 %
7b Special least concern animals	0.0 ha	0.0 %
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0 %
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0 %
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	0.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Not applicable

7b. Special least concern animals

Not applicable

7c i. Koala habitat area - core (SEQ)

Not applicable

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

(no results)

Special least concern animal species records

(no results)

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:

https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:

https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/

For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:

https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Not applicable

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Not applicable

8e. Regulated Vegetation - intersecting a watercourse**

(no results)

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

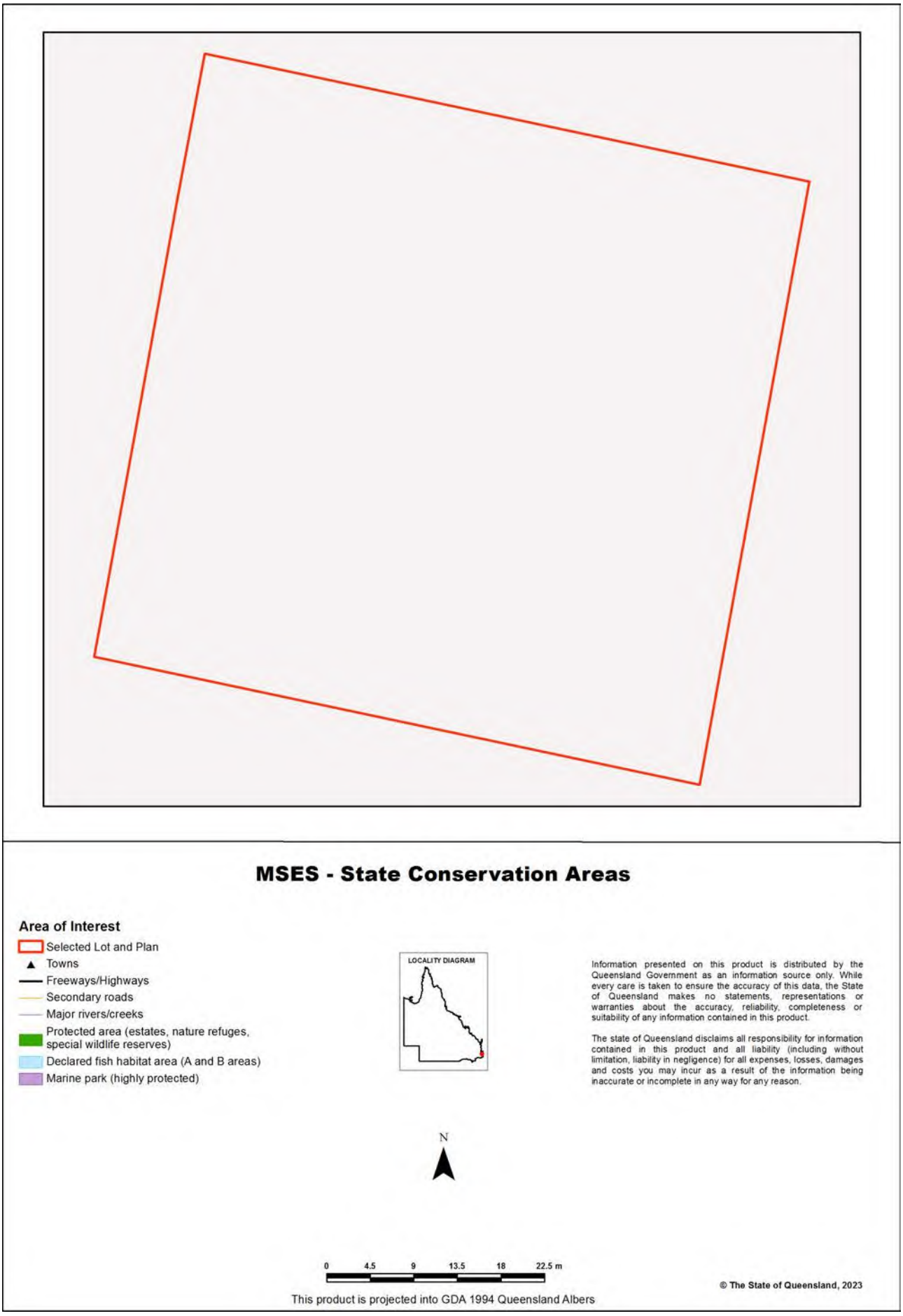
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

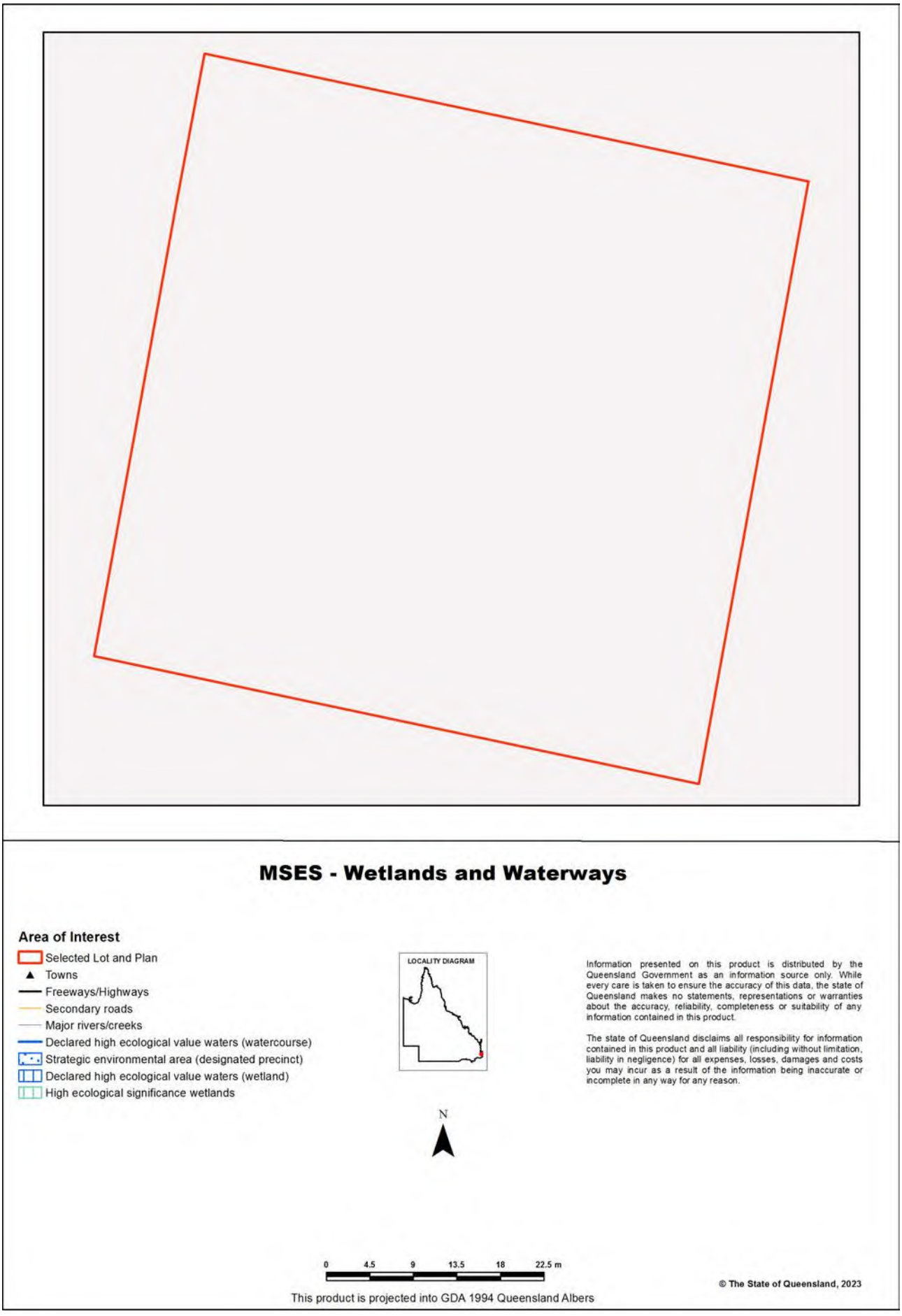
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

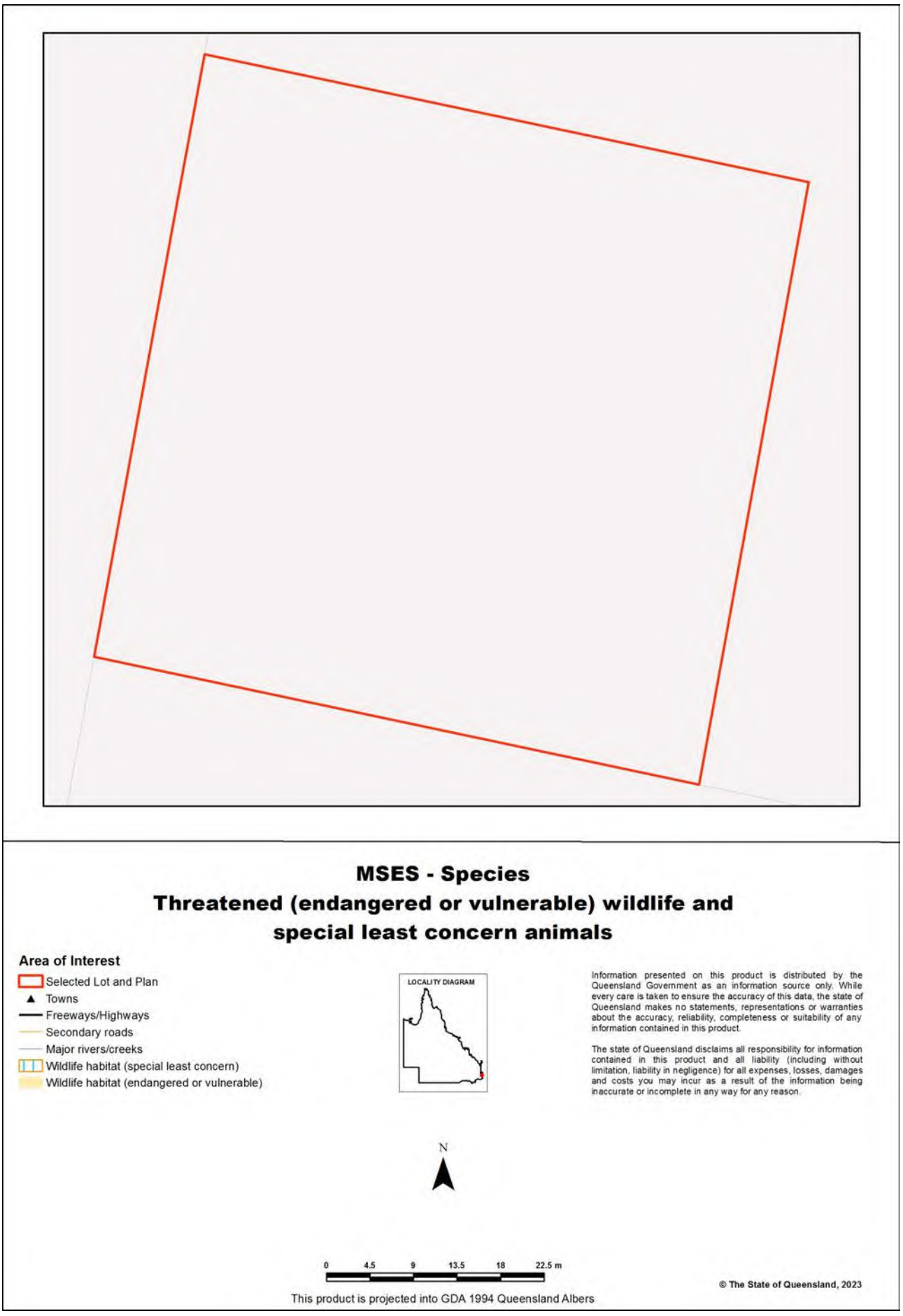
Map 1 - MSES - State Conservation Areas



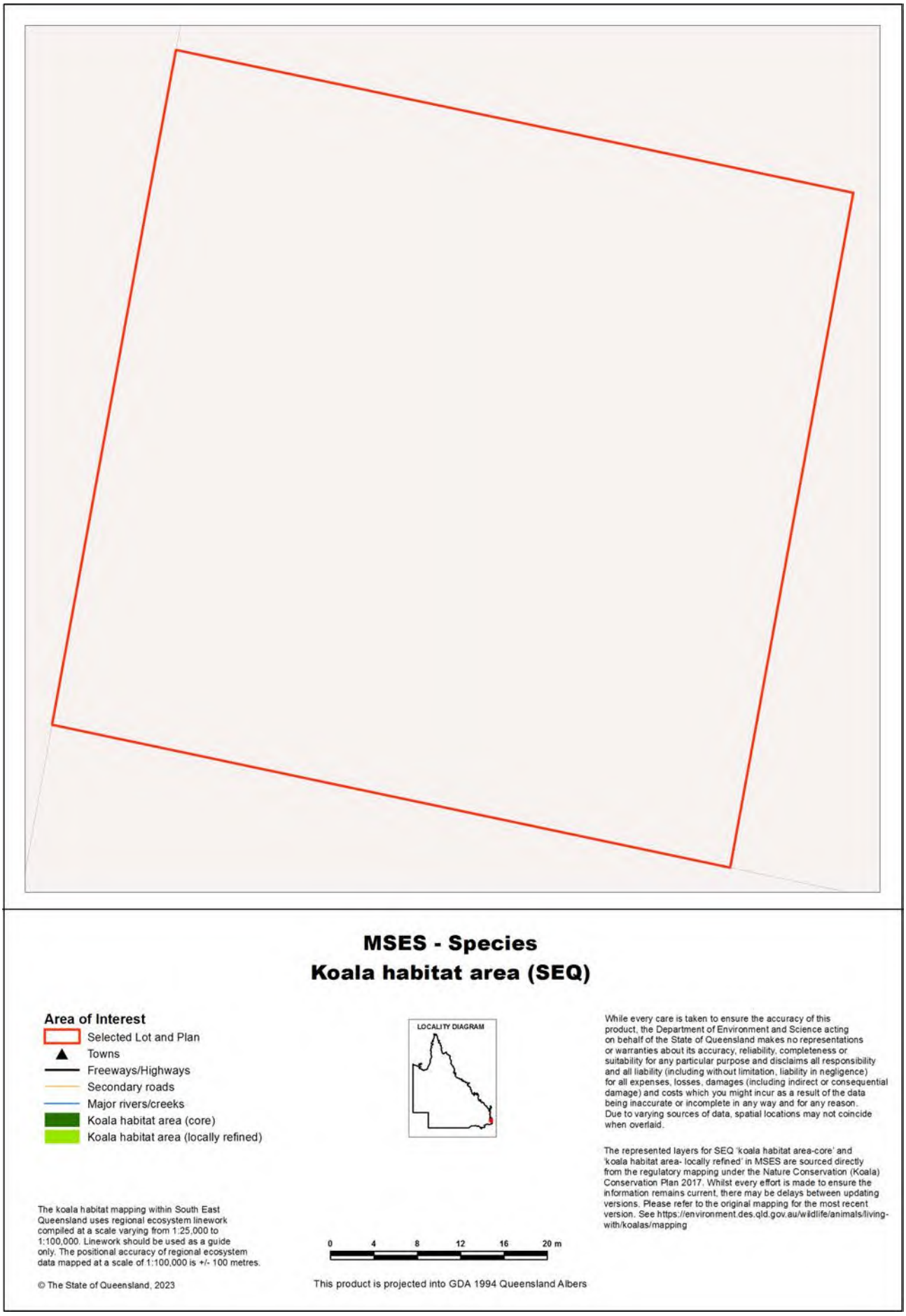
Map 2 - MSES - Wetlands and Waterways



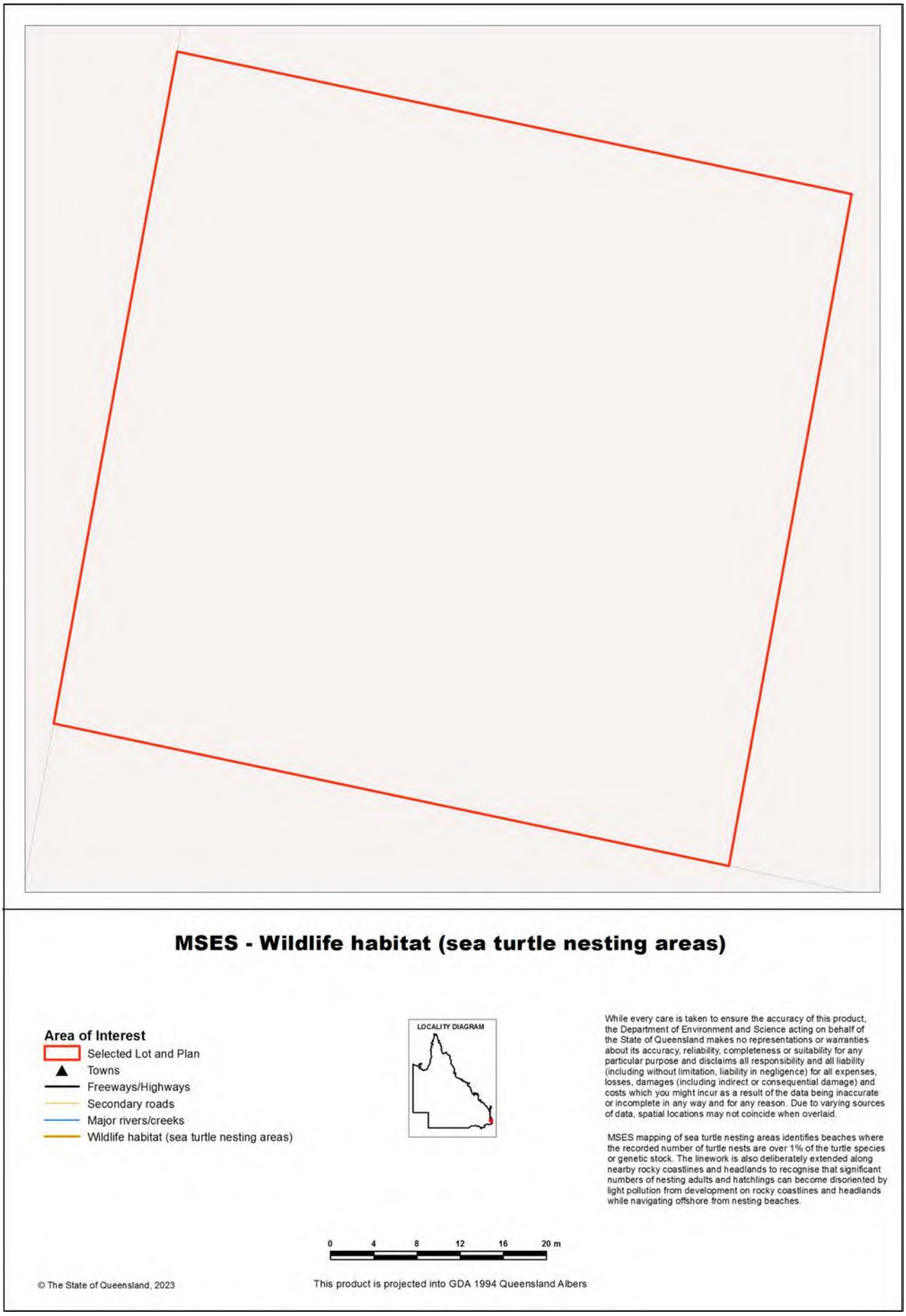
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



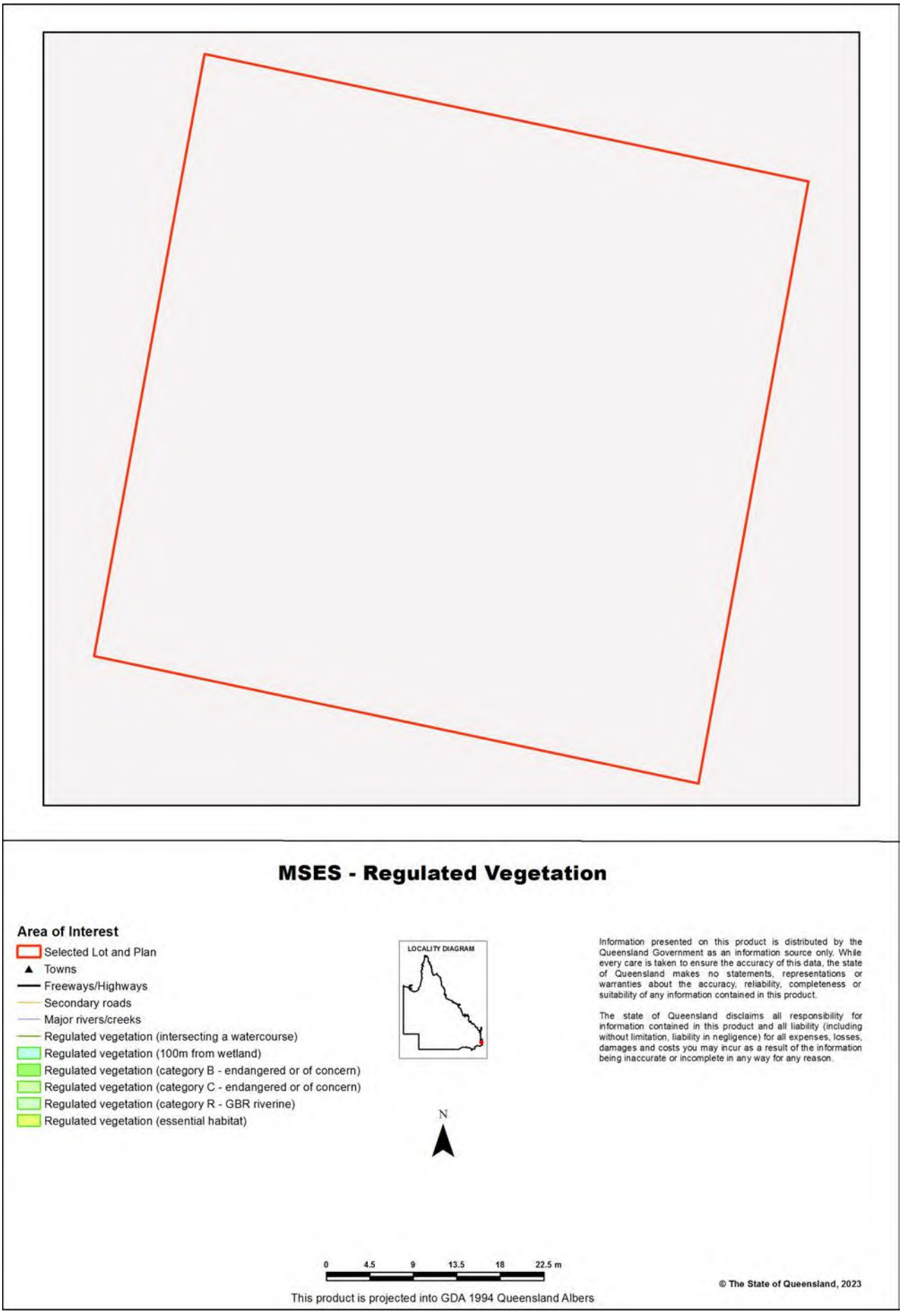
Map 3b - MSES - Species - Koala habitat area (SEQ)



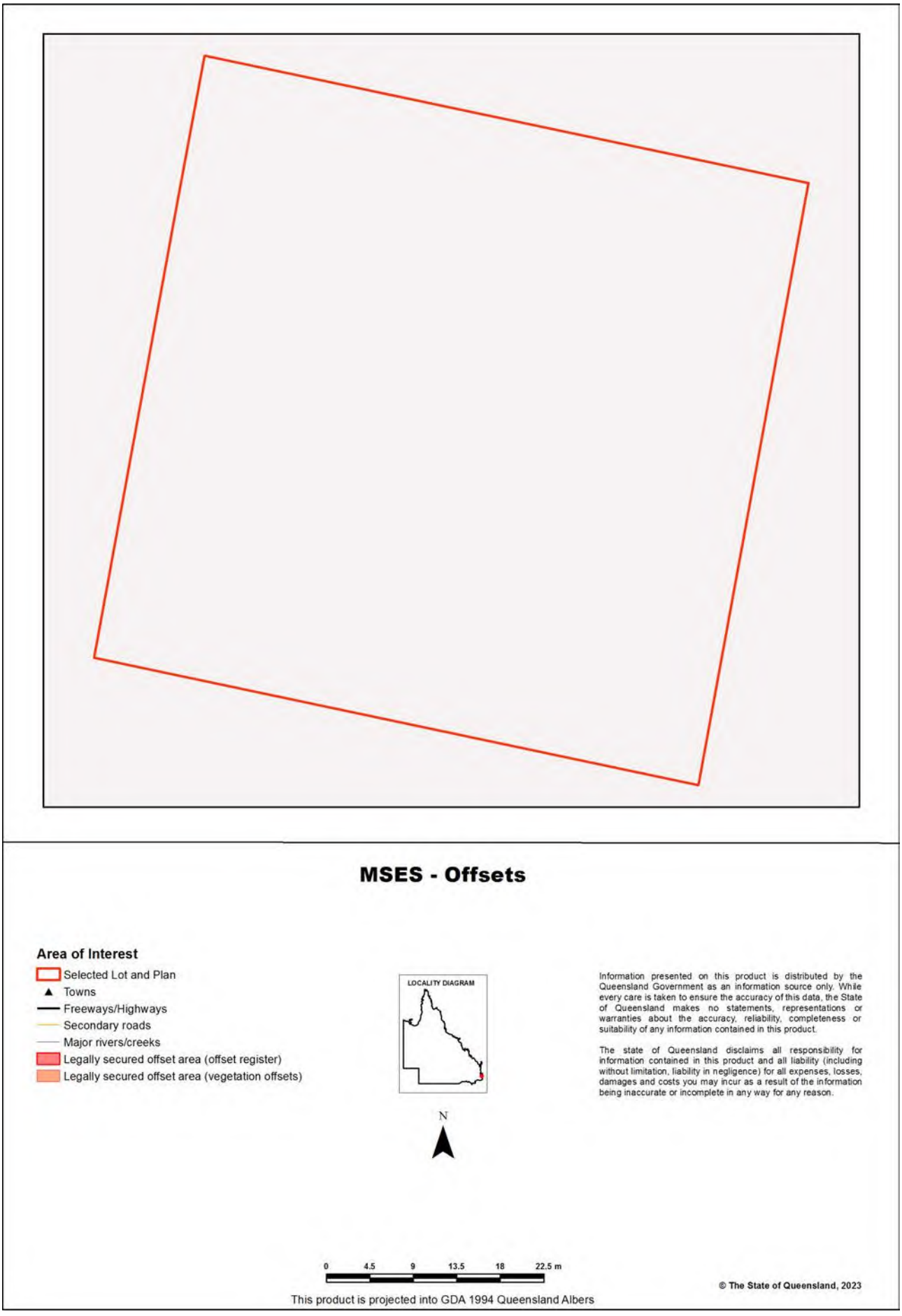
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



Appendices

Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html .

Appendix 2 - Source Data

The datasets listed below are available on request from:

http://qldspatial.information.qld.gov.au/catalogue/custom/index.page

- Matters of State environmental significance

Note: MSES mapping is not based on new or unique data. The primary mapping product draws data from a number of underlying environment databases and geo-referenced information sources. MSES mapping is a versioned product that is updated generally on a twice-yearly basis to incorporate the changes to underlying data sources. Several components of MSES mapping made for the current version may differ from the current underlying data sources. To ensure accuracy, or proper representation of MSES values, it is strongly recommended that users refer to the underlying data sources and review the current definition of MSES in the State Planning Policy, before applying the MSES mapping.

Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	**current QSpatial data (http://qspatial.information.qld.gov.au)**
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland
Marine Park-Highly Protected Zones	Moreton Bay marine park zoning 2008
Fish Habitat Areas	Queensland fish habitat areas
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas
HES wetlands	Map of Queensland Wetland Environmental Values
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records
VMA regulated regional ecosystems	Vegetation management regional ecosystem and remnant map
VMA Essential Habitat	Vegetation management - essential habitat map
VMA Wetlands	Vegetation management wetlands map
Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES
Regulated Vegetation Map	Vegetation management - regulated vegetation management map

Appendix 3 - Acronyms and Abbreviations

AOI	- Area of Interest
DES	- Department of Environment and Science
EP Act	- *Environmental Protection Act 1994*
EPP	- Environmental Protection Policy
GDA94	- Geocentric Datum of Australia 1994
GEM	- General Environmental Matters
GIS	- Geographic Information System
MSES	- Matters of State Environmental Significance
NCA	- *Nature Conservation Act 1992*
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 2 Plan: RP128089

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

Disclaimer

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.

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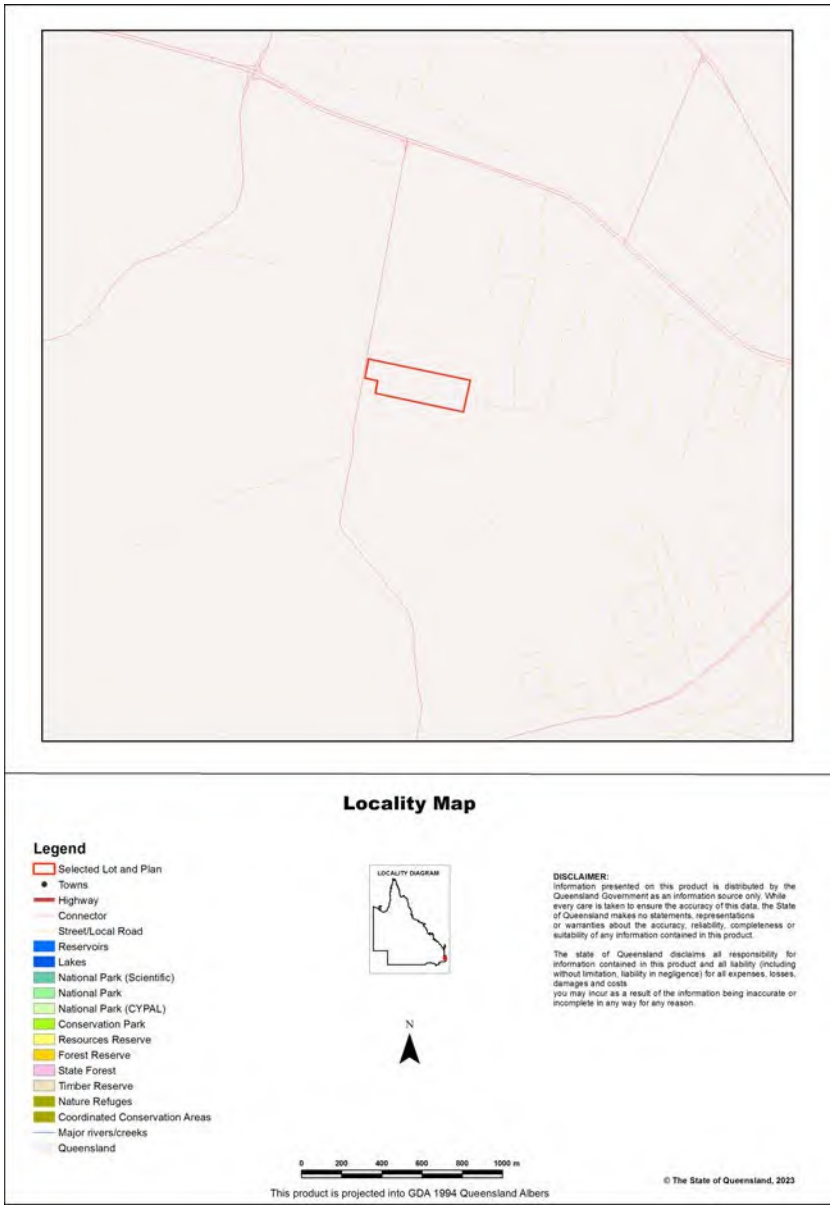
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 2 Plan: RP128089

Size (ha)	7.85
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;

- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;

- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.72 ha	9.2%
7b Special least concern animals	0.17 ha	2.2%
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0%
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.0 ha	0.0%
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0%
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0%
8e Regulated Vegetation - intersecting a watercourse	0.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Values are present

7b. Special least concern animals

Values are present

7c i. Koala habitat area - core (SEQ)

Values are present

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

Scientific name	Common name	NCA status	EPBC status	Migratory status
Adelotus brevis	tusked frog	V		
Ninox strenua	powerful owl	V		

Special least concern animal species records

Scientific name	Common name	Migratory status
Tachyglossus aculeatus	short-beaked echidna	

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:

https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:

https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/

For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:

https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Regional ecosystem	Vegetation management polygon	Vegetation management status
12.3.11	O-dom	rem_oc

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Regional ecosystem	Vegetation management polygon	Vegetation management status
12.3.11	O-dom	hvr_oc

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Values are present

8e. Regulated Vegetation - intersecting a watercourse**

(no results)

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

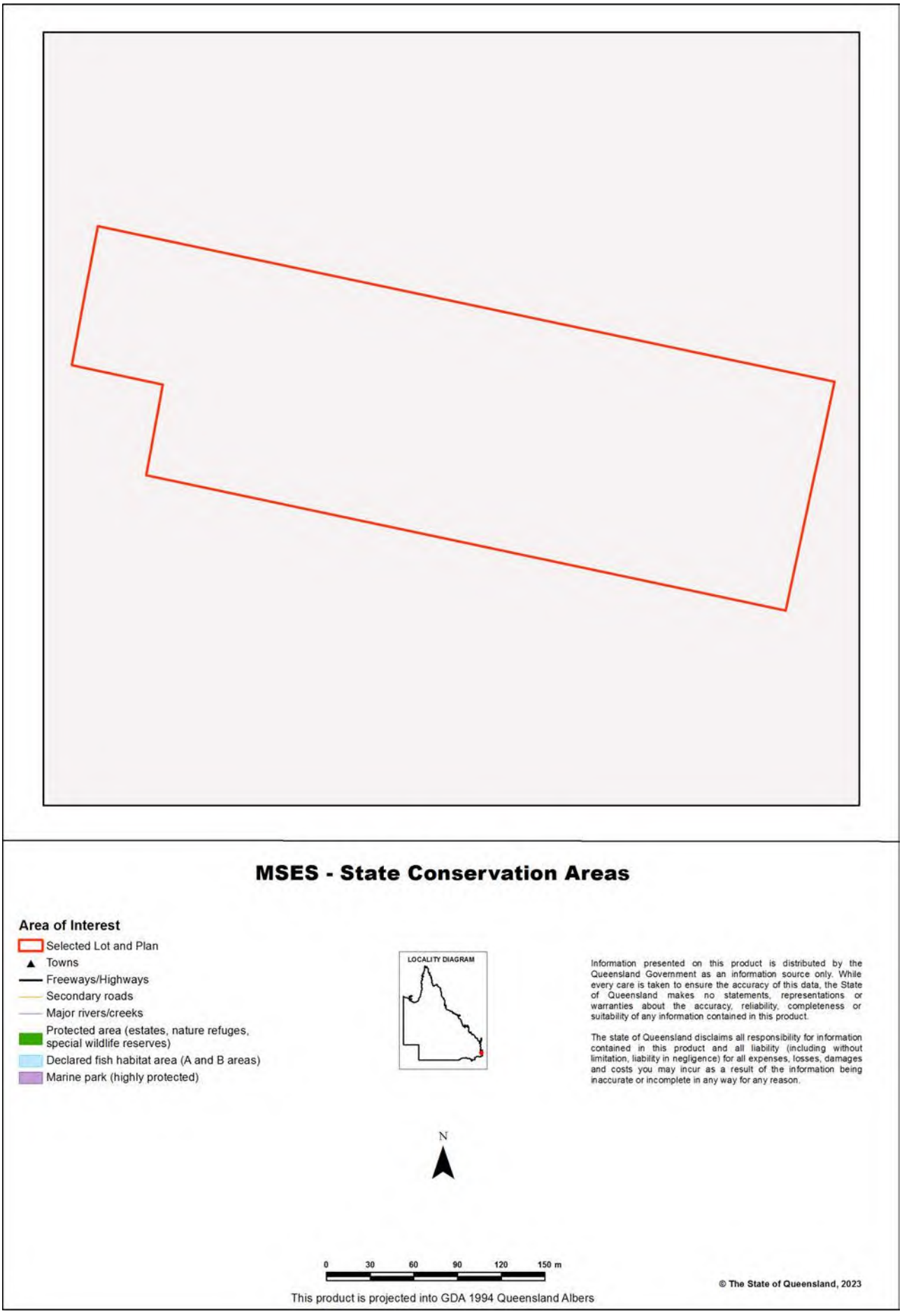
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

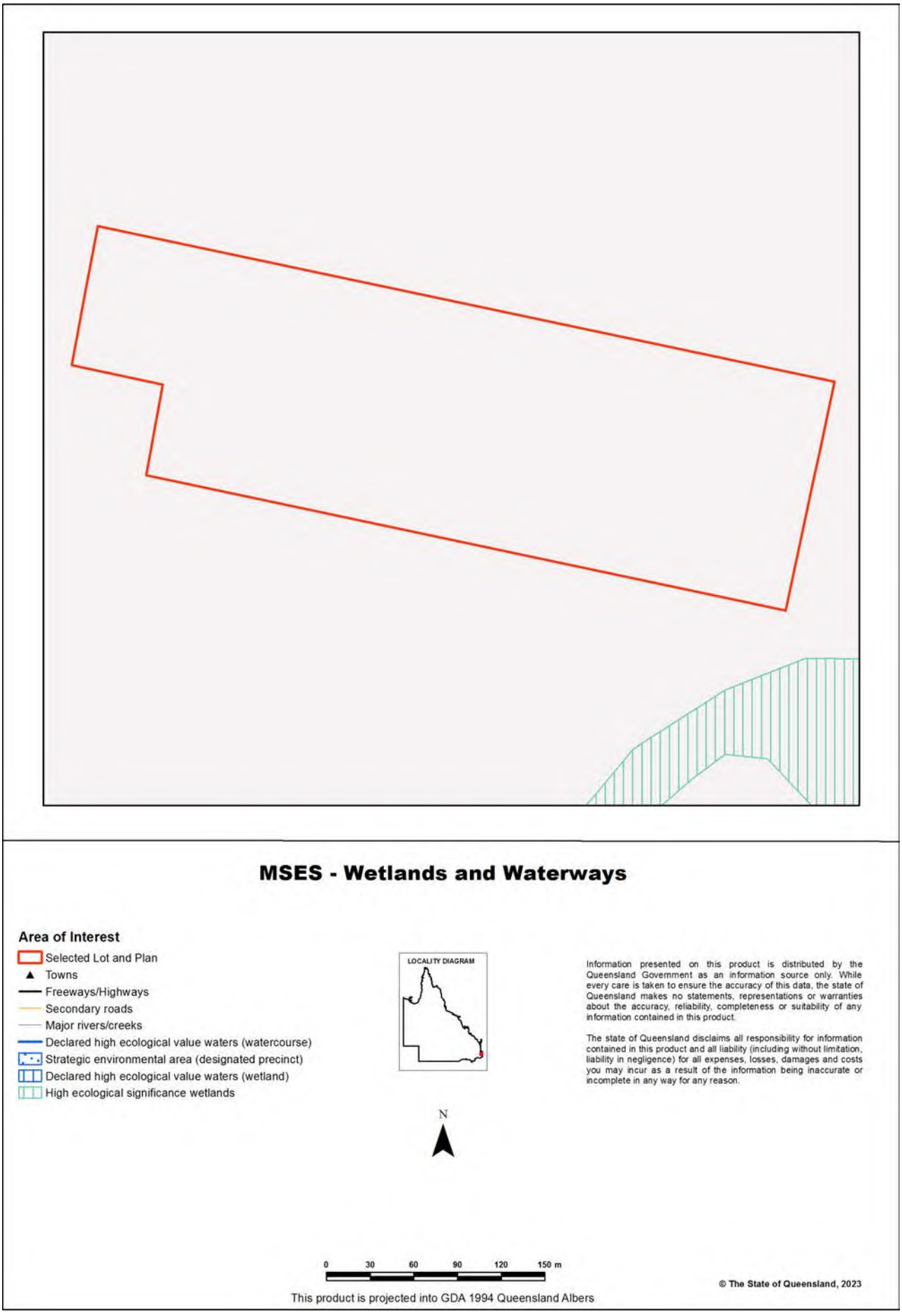
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

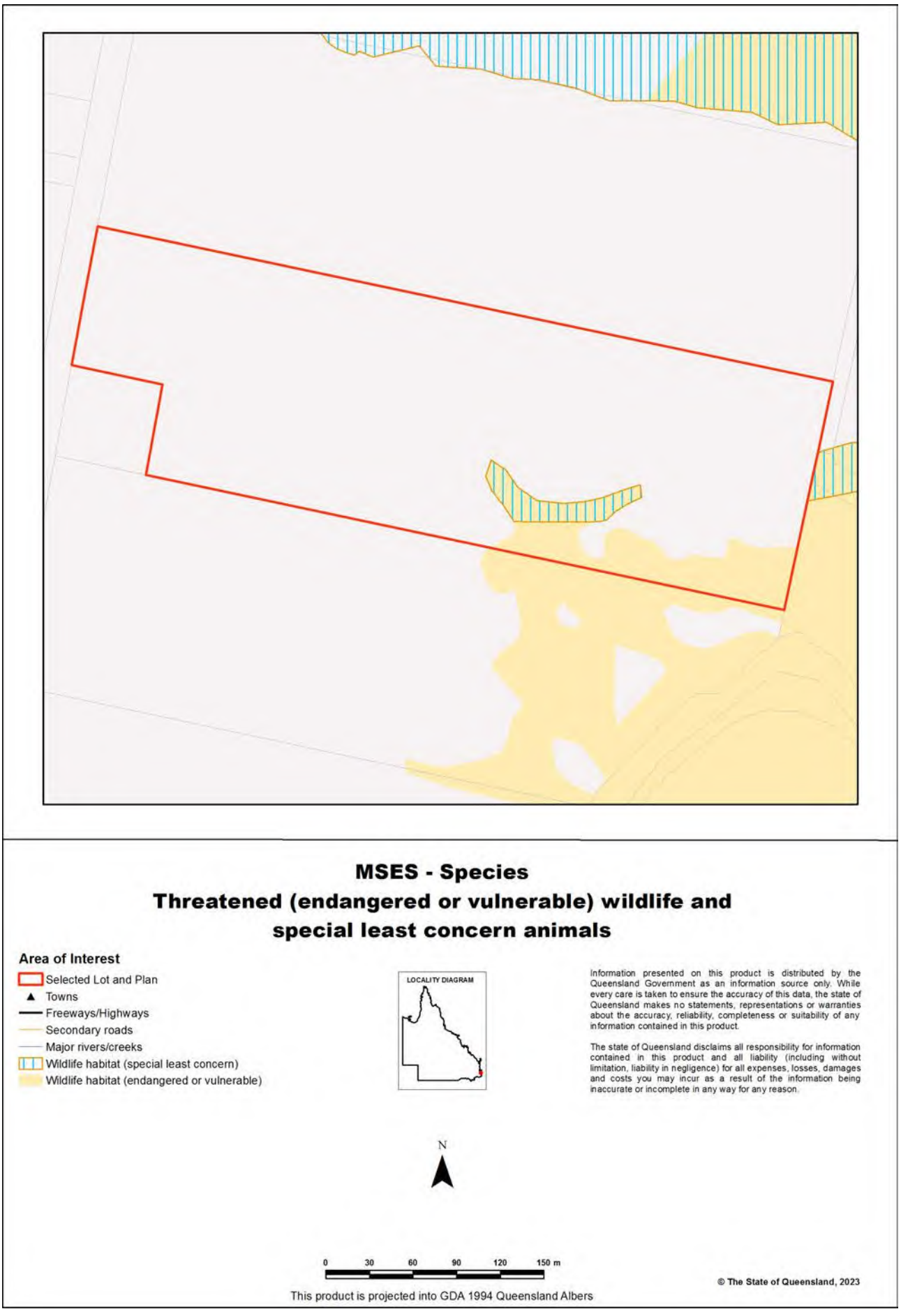
Map 1 - MSES - State Conservation Areas



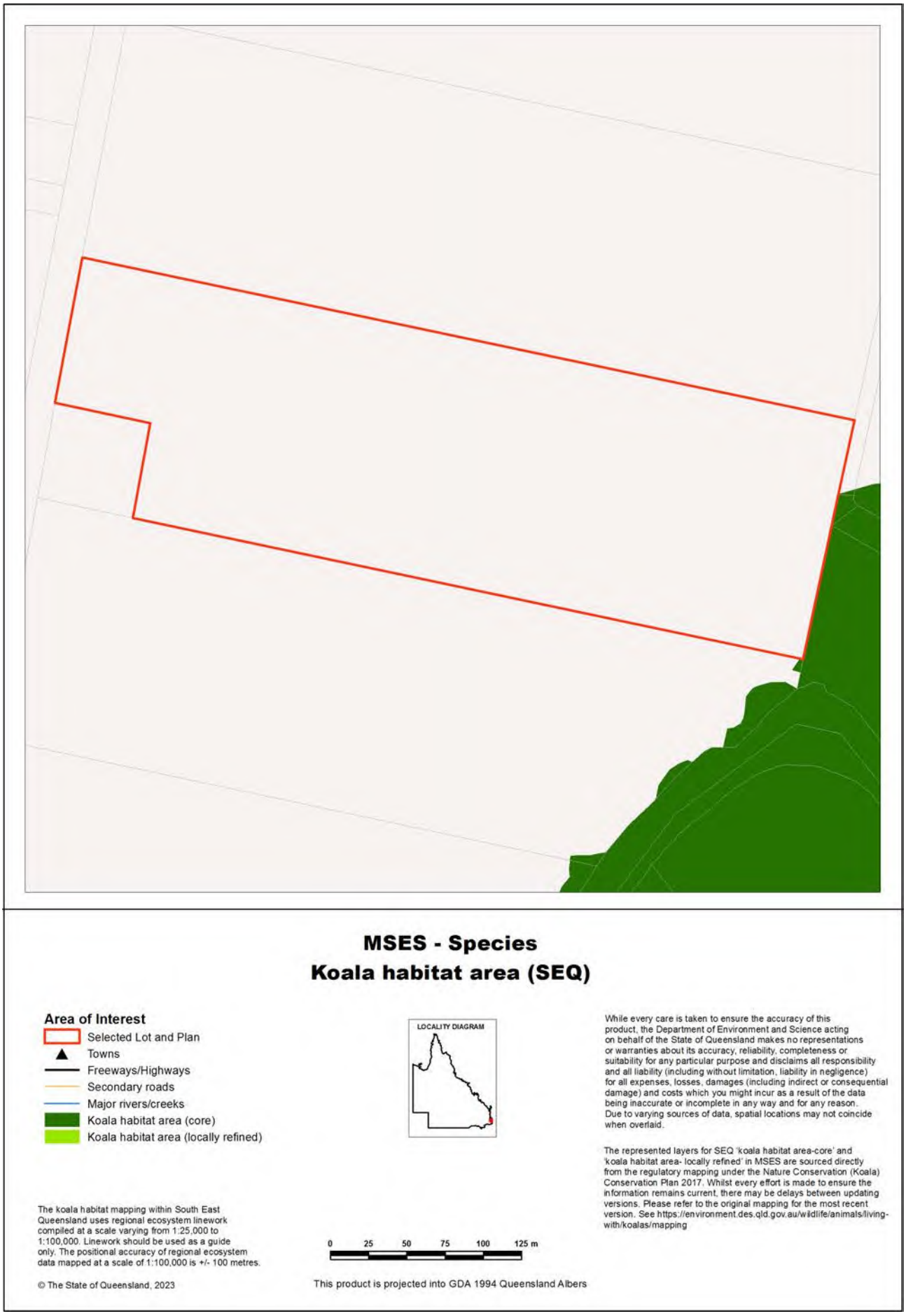
Map 2 - MSES - Wetlands and Waterways



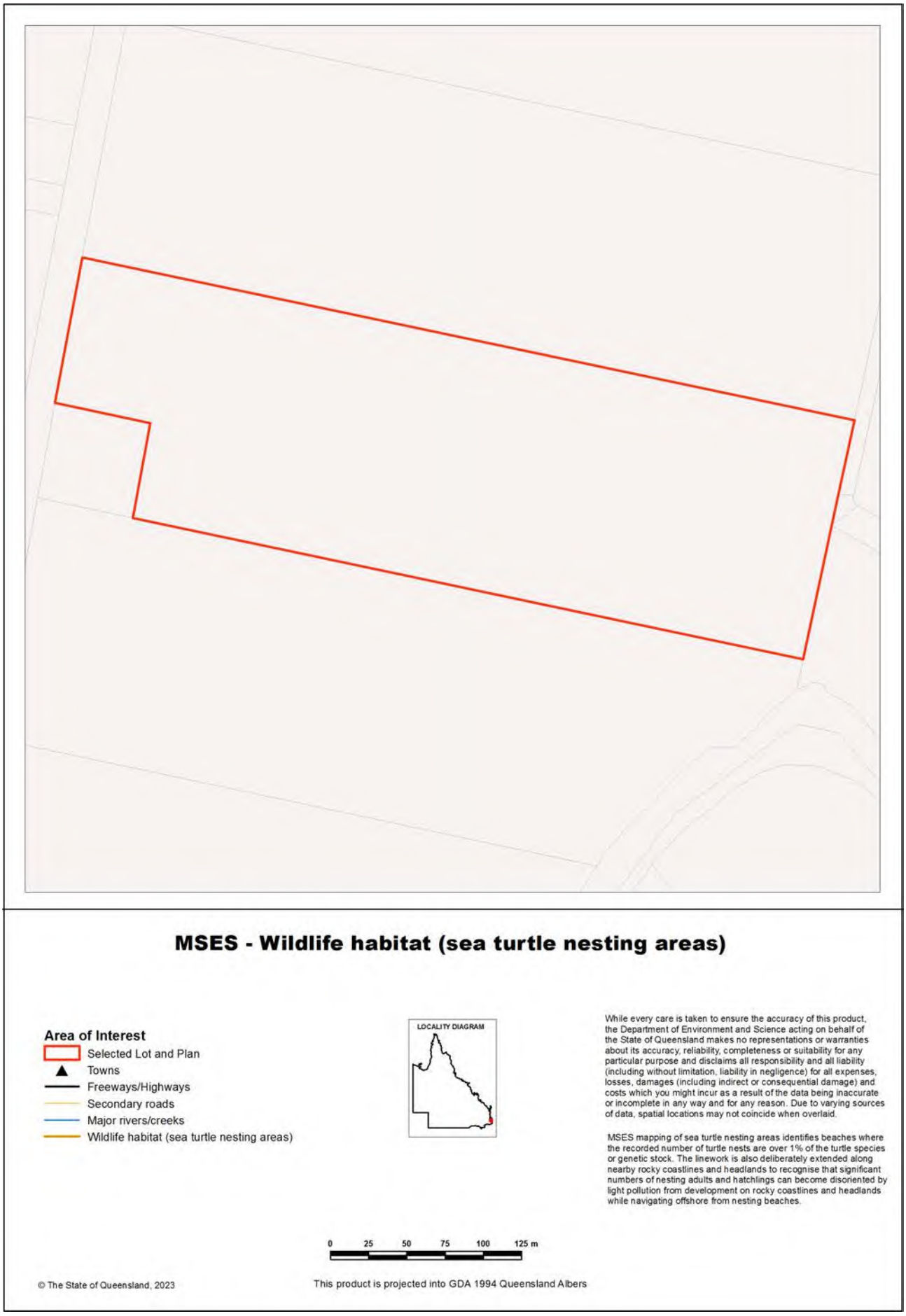
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



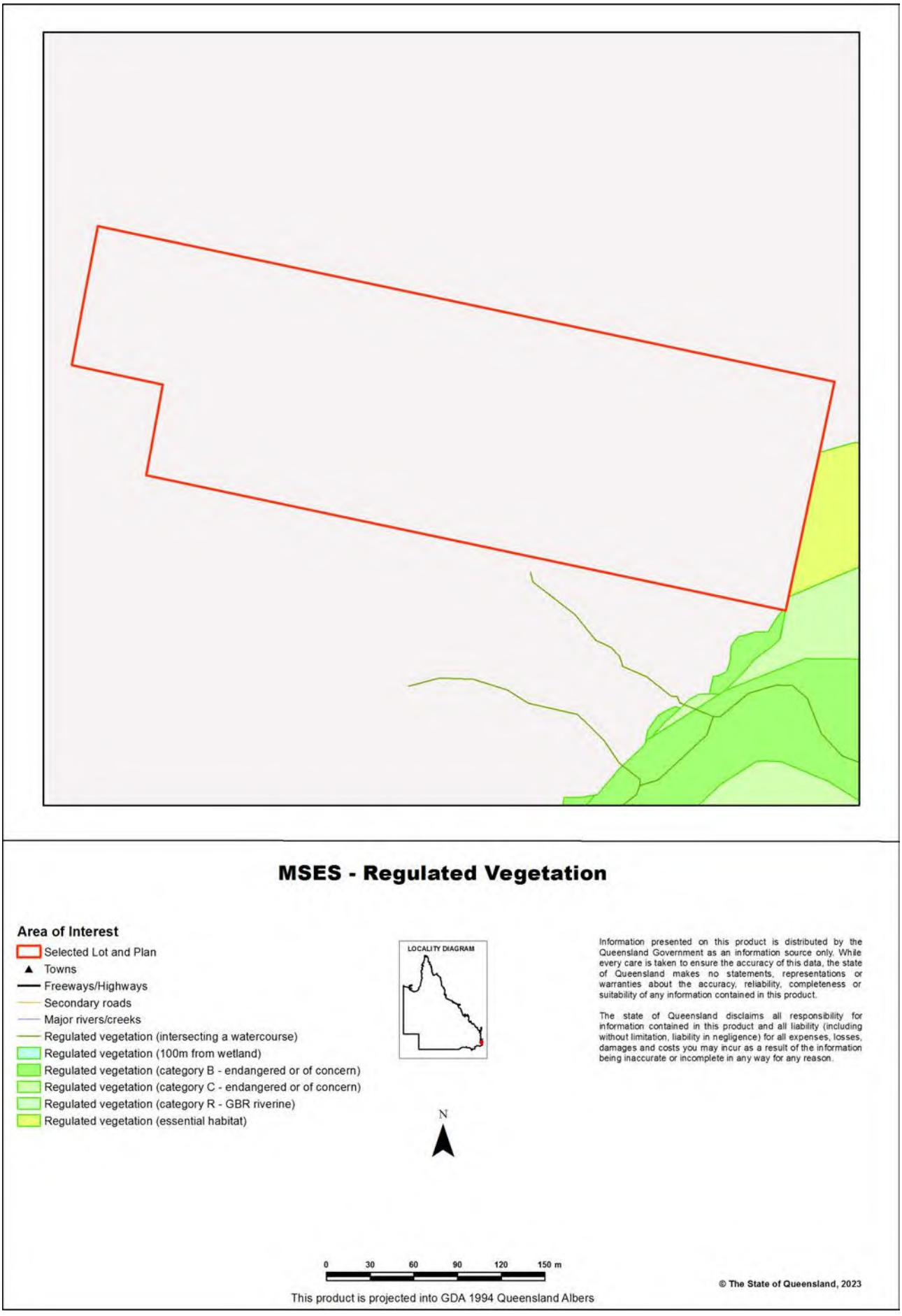
Map 3b - MSES - Species - Koala habitat area (SEQ)



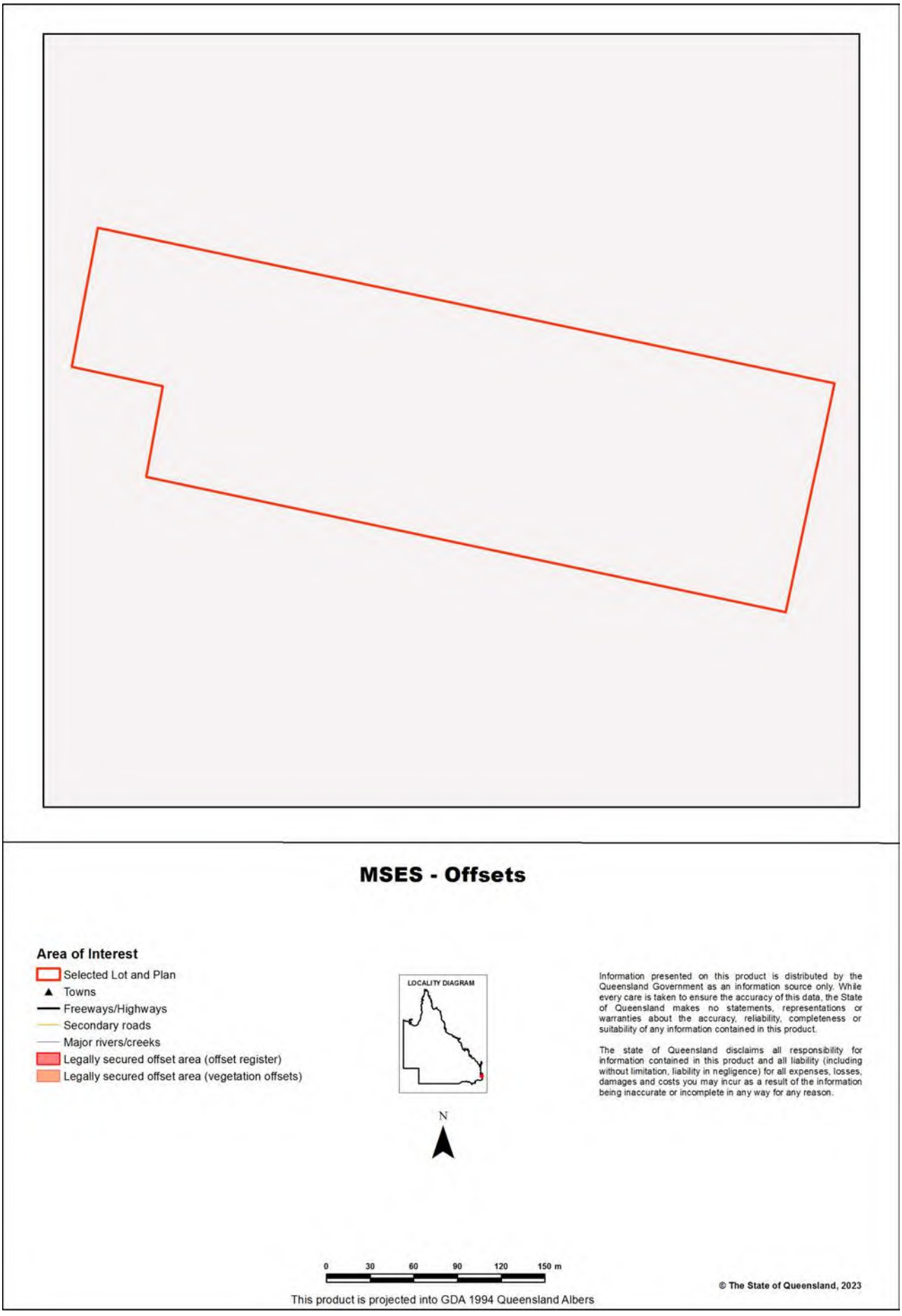
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



Appendices

Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html .

Appendix 2 - Source Data

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- Matters of State environmental significance

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Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	**current QSpatial data (http://qspatial.information.qld.gov.au)**
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland
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Fish Habitat Areas	Queensland fish habitat areas
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas
HES wetlands	Map of Queensland Wetland Environmental Values
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records
VMA regulated regional ecosystems	Vegetation management regional ecosystem and remnant map
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Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES
Regulated Vegetation Map	Vegetation management - regulated vegetation management map

Appendix 3 - Acronyms and Abbreviations

AOI	- Area of Interest
DES	- Department of Environment and Science
EP Act	- *Environmental Protection Act 1994*
EPP	- Environmental Protection Policy
GDA94	- Geocentric Datum of Australia 1994
GEM	- General Environmental Matters
GIS	- Geographic Information System
MSES	- Matters of State Environmental Significance
NCA	- *Nature Conservation Act 1992*
RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

Queensland Government

Department of Environment and Science

Environmental Reports

Matters of State Environmental Significance

For the selected area of interest
Lot: 16 Plan: RP53653

Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

Disclaimer

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.

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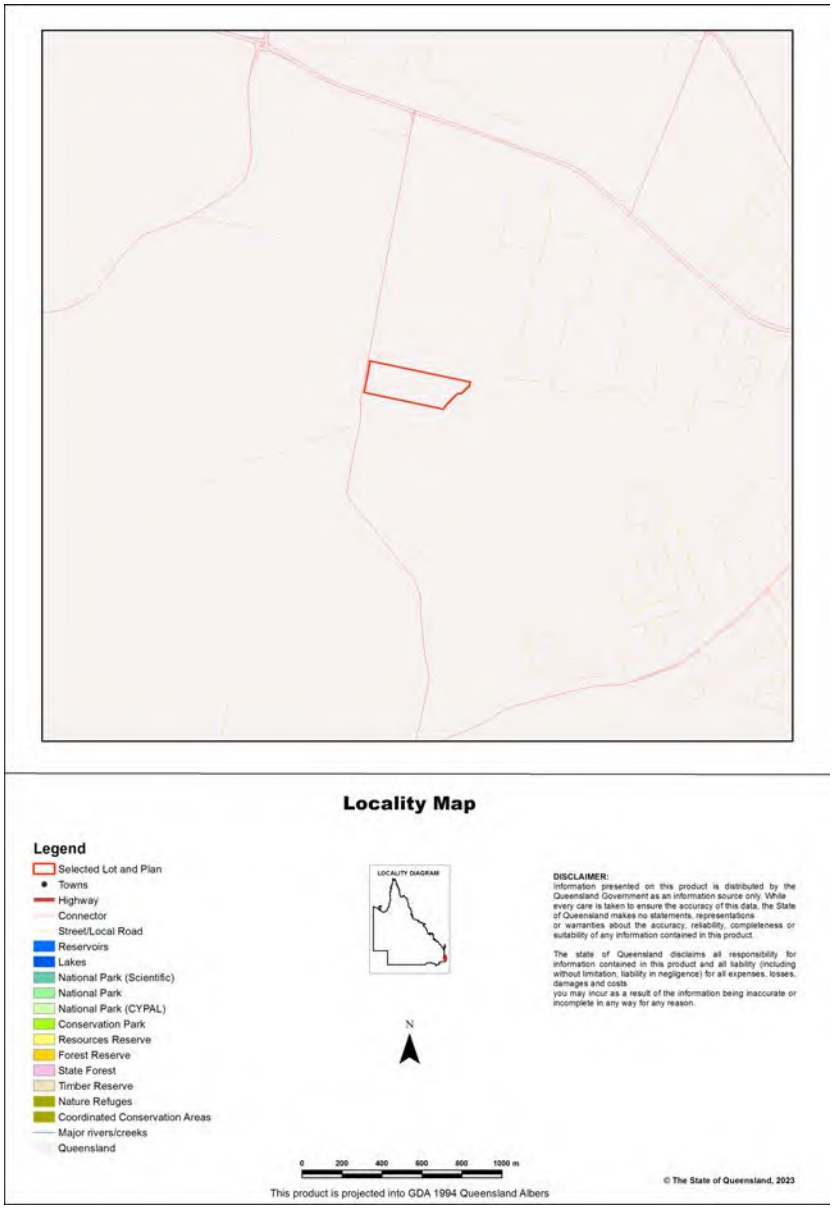
Assessment Area Details

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Lot: 16 Plan: RP53653

Size (ha)	7.38
Local Government(s)	Redland City
Bioregion(s)	Southeast Queensland
Subregion(s)	Sunshine Coast - Gold Coast Lowlands
Catchment(s)	Logan-Albert



Matters of State Environmental Significance (MSES)

MSES Categories

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992* ;

- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004* ;

- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;

- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;

- Regulated vegetation under the *Vegetation Management Act 1999* that is:

    • Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;

    • Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;

    • Category R areas on the regulated vegetation management map;

    • Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;

    • Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;

- Strategic Environmental Areas under the *Regional Planning Interests Act 2014* ;

- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;

- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2;

- Legally secured offset areas.

MSES Values Present

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.01 ha	0.15%
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	1.79 ha	24.3%
7b Special least concern animals	0.0 ha	0.0 %
7c i Koala habitat area - core (SEQ)	0.11 ha	1.5%
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	0.12 ha	1.6%
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0%
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.04%
8e Regulated Vegetation - intersecting a watercourse	0.3 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

Additional Information with Respect to MSES Values Present

MSES - State Conservation Areas

1a. Protected Areas - estates

(no results)

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to **Map 1 - MSES - State Conservation Areas** for an overview of the relevant MSES.

MSES - Wetlands and Waterways

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

Natural wetlands that are 'High Ecological Significance' (HES) on the Map of Queensland Wetland Environmental Values are present.

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to **Map 2 - MSES - Wetlands and Waterways** for an overview of the relevant MSES.

MSES - Species

7a. Threatened (endangered or vulnerable) wildlife

Values are present

7b. Special least concern animals

Not applicable

7c i. Koala habitat area - core (SEQ)

Values are present

7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	Core
Casuarius casuarius johnsonii	Sthn population cassowary	E	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

**For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.*

Threatened (endangered or vulnerable) wildlife species records

Scientific name	Common name	NCA status	EPBC status	Migratory status
Adelotus brevis	tusked frog	V		
Ninox strenua	powerful owl	V		

Special least concern animal species records

(no results)

Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

Shorebird habitat (special least concern)

Not applicable

**Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)*

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at:
https://www.qld.gov.au/environment/plants-animals/species-list/

Refer to **Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ)** and **Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)** for an overview of the relevant MSES.

MSES - Regulated Vegetation

For further information relating to regional ecosystems in general, go to:
https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/
For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at:
https://environment.ehp.qld.gov.au/regional-ecosystems/

8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Regional ecosystem	Vegetation management polygon	Vegetation management status
12.3.11	O-dom	rem_oc

8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Regional ecosystem	Vegetation management polygon	Vegetation management status
12.3.11	O-dom	hvr_oc

8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

8d. Regulated Vegetation - Essential habitat

Values are present

8e. Regulated Vegetation - intersecting a watercourse**

A vegetation management watercourse is mapped as present

8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to **Map 4 - MSES - Regulated Vegetation** for an overview of the relevant MSES.

MSES - Offsets

9a. Legally secured offset areas - offset register areas

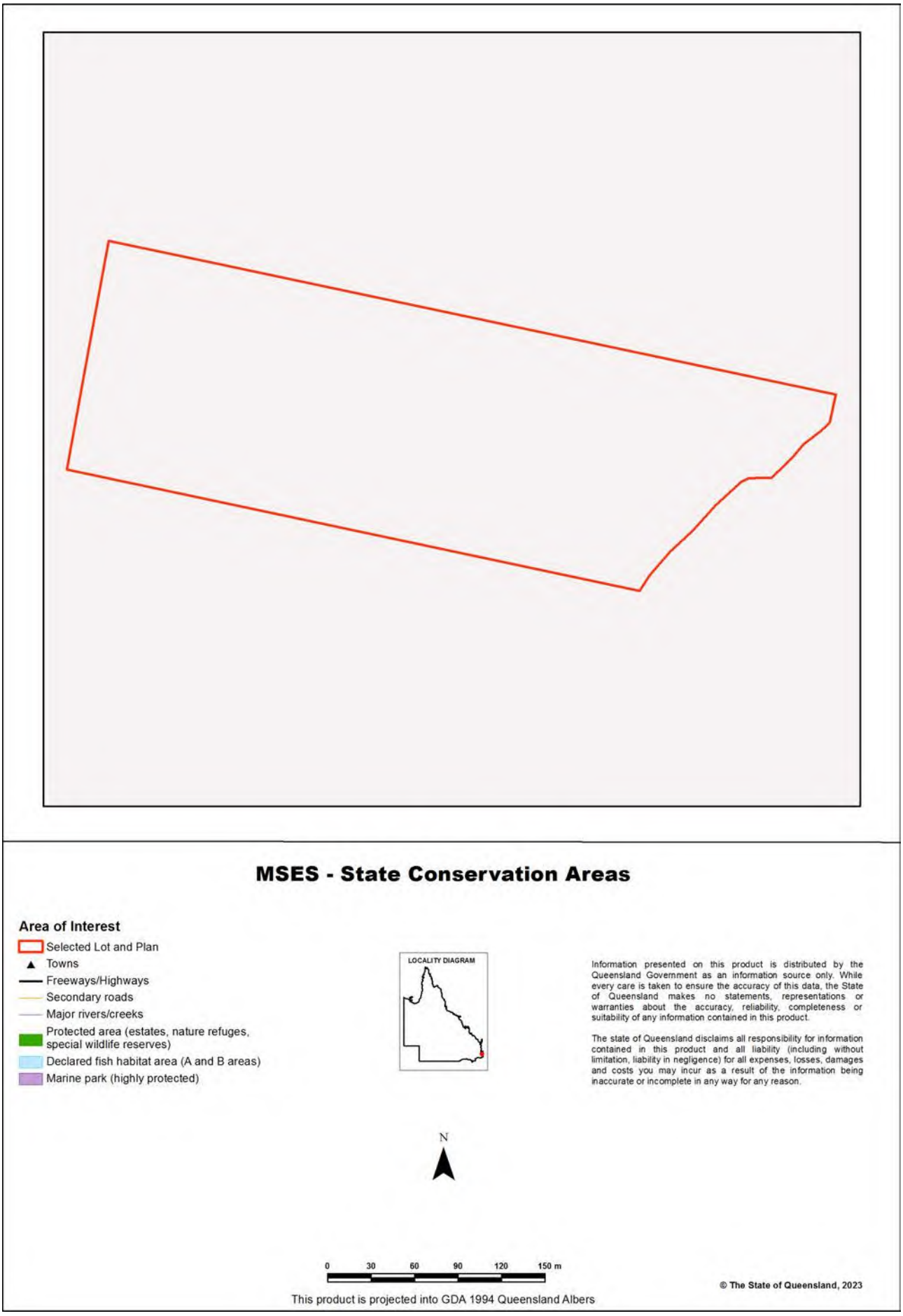
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

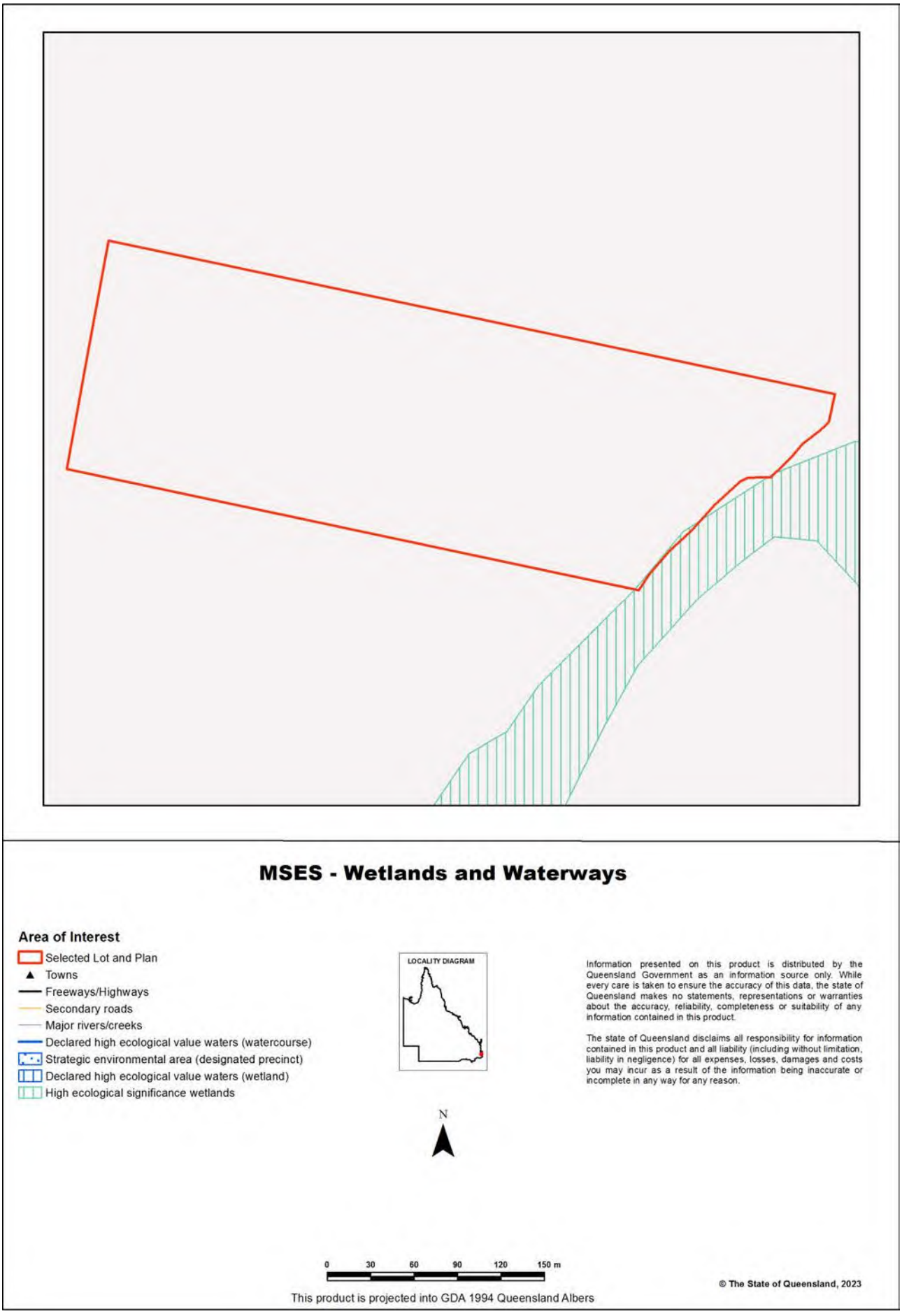
(no results)

Refer to **Map 5 - MSES - Offset Areas** for an overview of the relevant MSES.

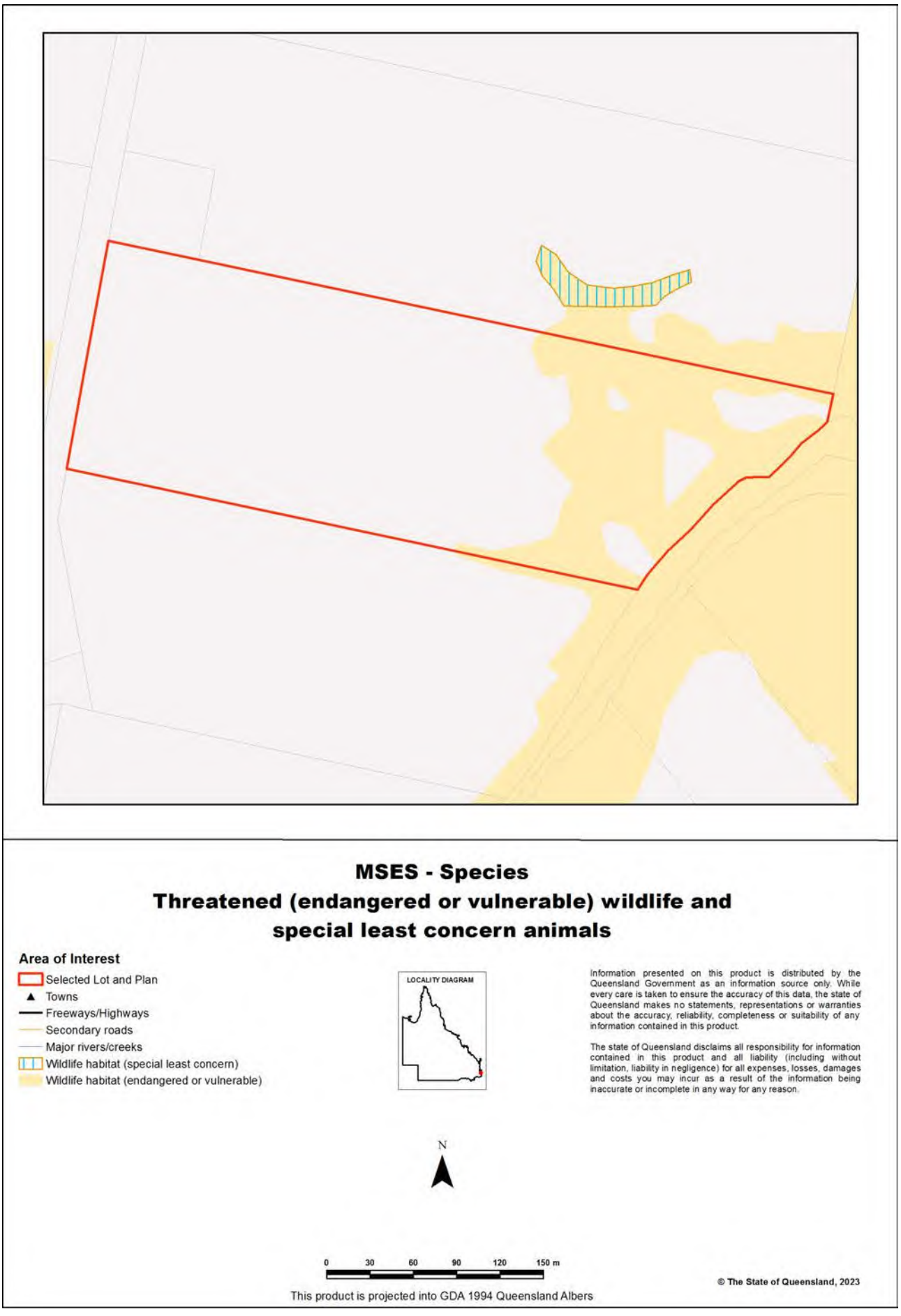
Map 1 - MSES - State Conservation Areas



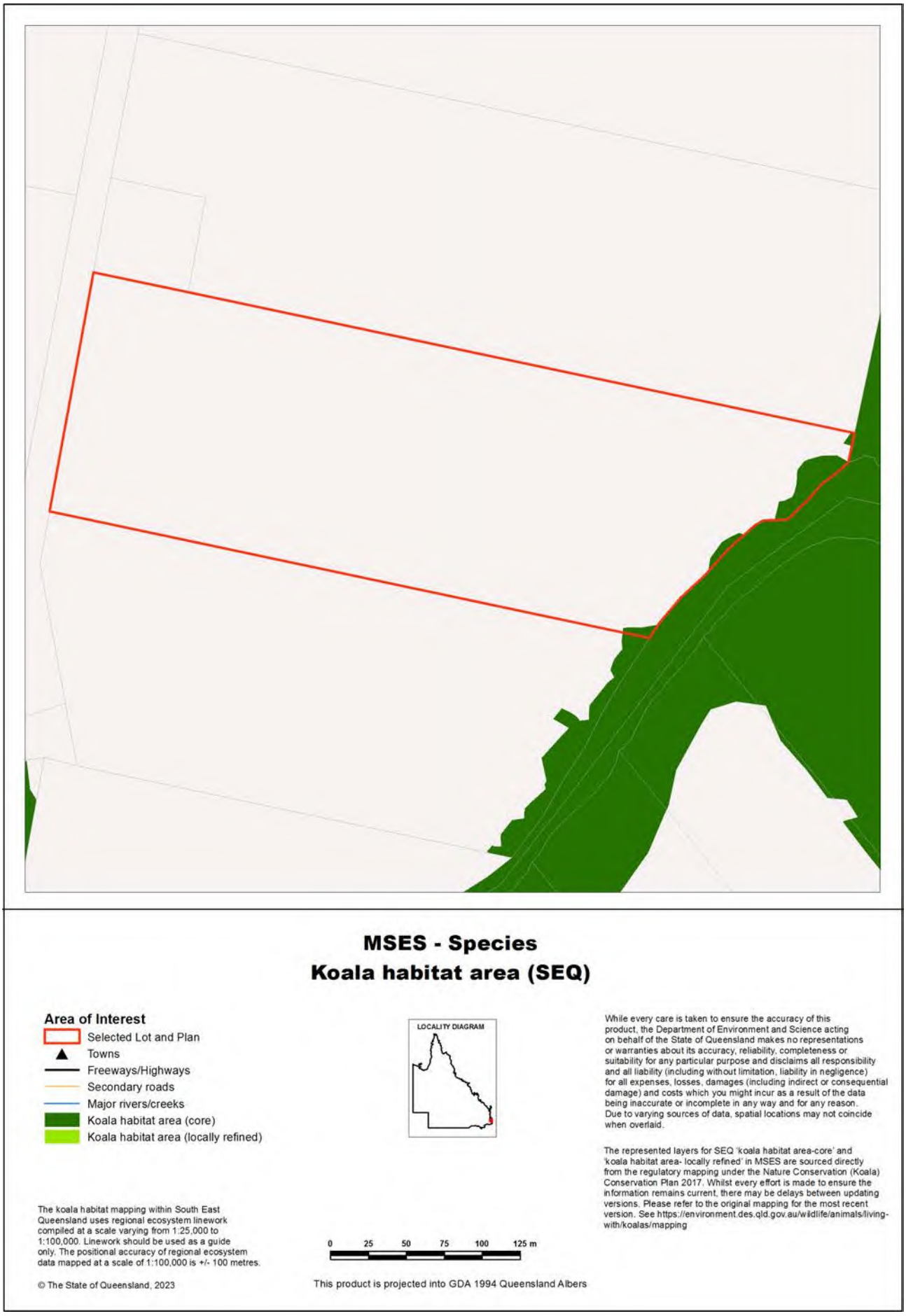
Map 2 - MSES - Wetlands and Waterways



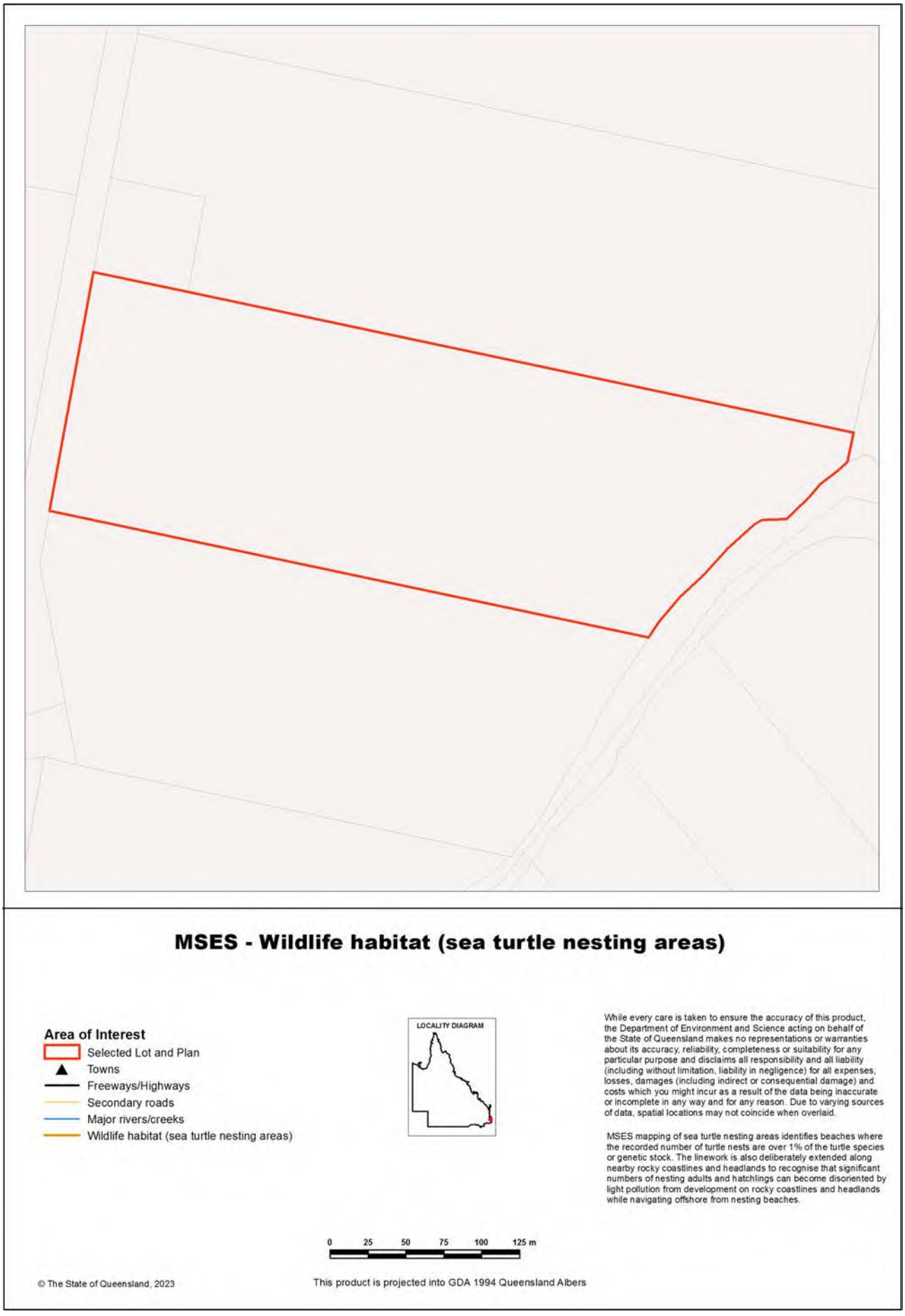
Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



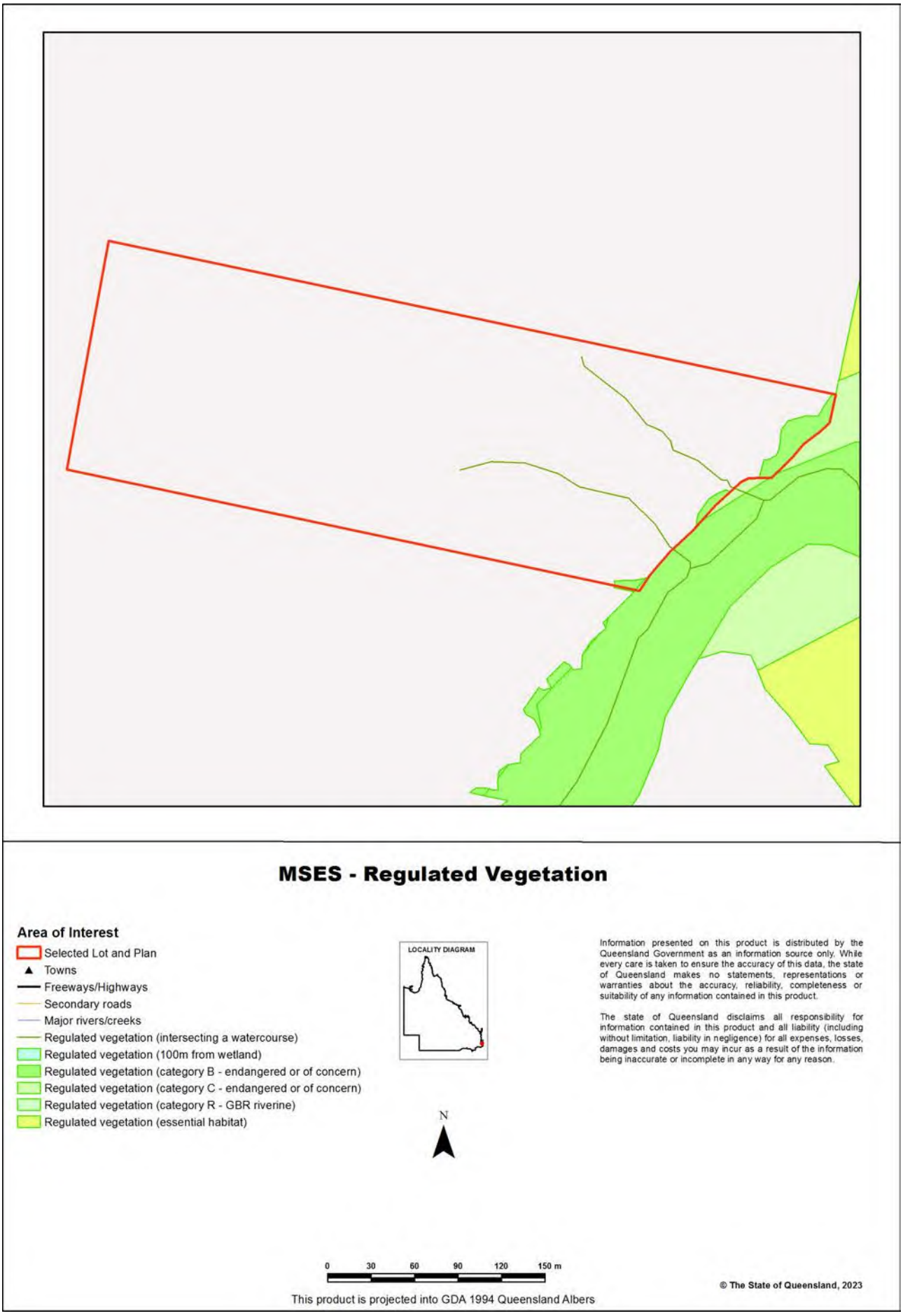
Map 3b - MSES - Species - Koala habitat area (SEQ)



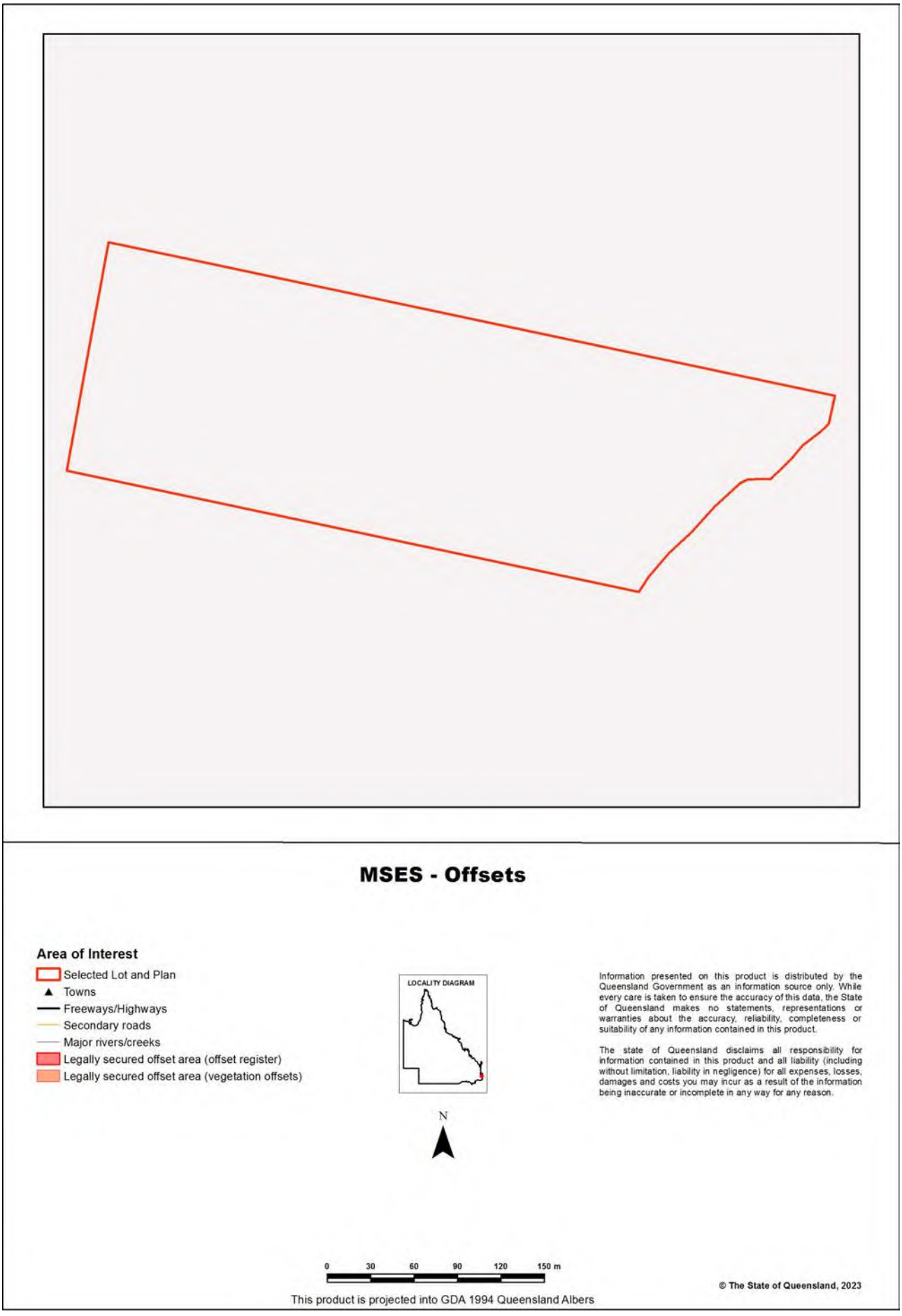
Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



Map 4 - MSES - Regulated Vegetation



Map 5 - MSES - Offset Areas



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Fish Habitat Areas	Queensland fish habitat areas
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Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)
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Appendix 3 - Acronyms and Abbreviations

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MSES	- Matters of State Environmental Significance
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RE	- Regional Ecosystem
SPP	- State Planning Policy
VMA	- *Vegetation Management Act 1999*

APPENDIX C
Biodiversity Corridors

Statewide Biodiversity Corridors

A product of Queensland Globe

27°33'34"S 153°13'6"E

27°33'34"S 153°17'19"E

27°36'39"S 153°13'6"E

27°36'39"S 153°17'19"E

Legend located on next page

N

0 1 km

Scale: 1:37604

Printed at: A4

Print date: 21/9/2023

Not suitable for accurate measurement.

Projection: Web Mercator EPSG 102100 (3857)

For more information, visit https://qldglobe.information.qld.gov.au/help-info/Contact-us.html

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Queensland Government

Department of Resources

Statewide Biodiversity Corridors

Legend

Land parcels 40.8ha.kmz - poly

Terrestrial corridor centrelines

- Terrestrial centrelines

Riparian corridor centrelines

- Riparian centrelines

Corridor buffers

- State
- Regional

Road Crossing

- Bridge
- Tunnel

Road

- Highway
- Main
- Local
- Private

Railway

Attribution

Maxar

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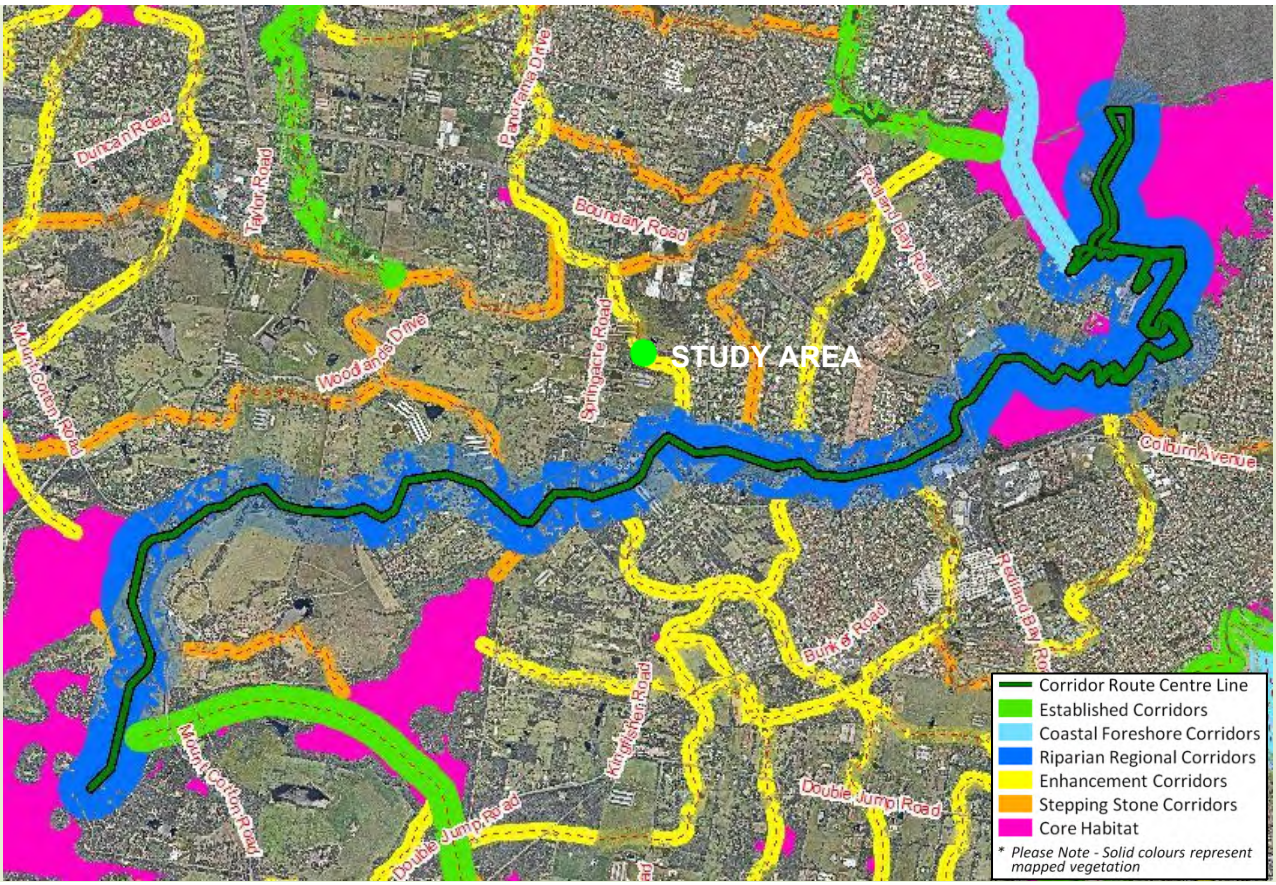
Eprapah Creek Riparian Corridor - Regional Corridor (BPA)

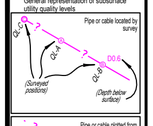


Description	East west corridor running from mouth of Eprapah Creek (Point Halloran Conservation Area) to the Eastern Escarpment Conservation Reserve (Mount Cotton Road).
Environmental Values	Linking coastal vegetation (12.1.2 and 12.1.3) at the mouth of Eprapah Creek to Spotted gum dominated forest (12.11.5a/12.11.5k) in the Mount Cotton area, via riparian vegetation (12.3.11 and 12.3.6). Multiple corridor and waterway dependent bird species recorded along corridor. Glossy Black-Cockatoo recorded mid-section of corridor. Scute-snouted Calyptotis recorded at mid-section of corridor. Aquatic species values throughout corridor. Numerous koala records along corridor. Contains High Ecological Values waters under State Environmental Protection (Water) Policy 2009 covering ~90 per cent of corridor length.
Core Habitat Linkages	Links 7 core habitat patches. Maximum distance between patches is ≈1500m.
Land Uses / Tenure	Conservation reserves to east and west (Point Halloran Conservation Area and Eastern Escarpment Conservation Reserve) with predominately Rural land to the west and Urban Residential to the east. Trunk of corridor predominately council owned Conservation zoned land, surrounded by Low Density Residential and Urban Residential zoned land to the east and Rural zoned land to the west.
Community Use	Recreational uses in conservation reserves. Waterway recreation values. High value coastal recreation area.
Threats & Barriers	Poor rural land management (e.g. grazing pressure, vegetation clearing, erosion). Poor urban land management (e.g. uncontrolled domestic animals, garden escapee weeds, noise and light disturbance). Fauna barriers at Redland Bay Road, Springacre Road and Mount Cotton Road.
Gaps & Pinch Points	Pinch points to the east and west of Mount Cotton Road.
Priority Outcomes	Management of impacts from urban and peri-urban area (e.g. garden escapee weeds, domestic animal control, noise and light reduction, etc.). Management of impacts from rural land areas (e.g. vegetation management, weed control). Rehabilitation of gaps south of Boundary Road. Safe fauna passage across Redland Bay Road, Springacre Road and Mount Cotton Road.

APPENDIX D
Tree Plot Information

LEGEND

General representation of subsurface utility quality levels



QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall, Ceiling, Roof, Gutter/Eave, Awning post, Downpipe, Column
Electric overhead — EOH
Electric underground — E
Low Voltage — ELV
High Voltage — EHV
Camera, Power pole, Ground lt, Bollard light, Light pole, Manhole, Pillar, Pit, Marker, ELSP, Marker post, Vend. Mach.
FENCE Block, FENCE Picket, FENCE Bollard, FENCE Pool, FENCE Log, FENCE Rail, FENCE ManProof, FENCE Wire, FENCE Metal, FENCE General, Bollard, Fence posts, Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter, Marker, Valve, Marker post, Vent
Sewer pipe — S
Sewer rising main — RM
Sewer Vacuum Main — VS
Centre chamber, Marker post, Inspect. opening, Poo pit, Manhole, Vent, Marker
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber, Marker post, Field inlet, Manhole, Gully trap, Marker, Kerb outlet
Telstra overhead — OHT
Telstra underground — T
Manhole, Pit, Marker post, Marker, Pillar, OH Pole
Concrete, Gully, Gravel, CG, Pavers, Water edge, Bitumen, Canopy, Extent of vegetation, Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore, Reducer, Fire hydrant, Sprinkler, FH post, Scour valve, Hose reel, Tap, Meter, Tapping band, Manhole, Valve, Marker, Air valve, Marker post, Above g. valve, Irrigation valve
Bridge Soffit, Bridge Support
Bridge Pier, Comms overhead, (records)
Comms underground — C
Marker post, Manhole, Marker, Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap, Fuel valve, Marker post, Marker, Borehole, Settlement Plate
Bitumen, Road surface, Kerb
Guide post, Parking meter, Phone, Traffic light, Traffic Pillar, TL with light, Traffic Pit, Roadmark, Overtaking
Continuity line, Giveway line, Dashed line, Double lines, Chevron marking, Turning Arrows
Advert., Keep Right, Airport, Misc. sign, Blue sign Aid/Services, Prohibitive Regulatory Parking, Brown sign Tourist, Rail Xing, Bus, Stop sign, Chevron, Speed sign, Green sign Dist.,directions, Street Name, Give way, School, Keep Left, Yellow sign Warning, Rail mast, Boom gate, Rail signal
Exotic Tree, Palm tree, Native Tree, Pine tree, Shrub, Stump, Bin, Flag pole, Hoist, Letter box, Post box, Unknown marker post, Unknown pit, Unknown manhole, Unknown valve, Unknown marker

Subject property boundary
Adjoining property boundary
Covenant, Emt
Lease
Permanent survey mark, Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

PURPOSE OF PLAN
This plan represents a ground survey of the site to enable architectural and engineering design.
For reason of clarity, certain information is not shown on this plan. Please refer to the accompanying digital data for all survey information and attributes.

CONTOURS
The contours shown represent the site as it was at the time of survey. This is not necessarily the "natural surface" or "ground level" as defined by some councils and thus cannot be used to calculate compliance with some council's building height limits. Minor Contour Interval: 0.5m

VEGETATION
Only trees greater than or equal to 300mm breast height diameter have been located. Tree heights are approximate only. The species of trees shown are layman's estimates and were not determined by experts. See tree table for individual tree details.
Rev B adds new tagged tree locations shown in light green with a separate tree table on page 18.

PROPERTY BOUNDARIES
The surrounding subject property boundaries shown on this plan are plotted from Identification Survey plan IS313214 completed by RPS AAP Consulting Pty Ltd

The adjoining boundaries on this plan have been plotted from the Digital Cadastral Data Base (DCDB) and were not reinstated or marked at the time of the survey.
© State of Queensland (Department of Resources) 2020.

The property boundaries shown as DCDB on this plan must not be relied upon when designing services, buildings or other structures that will be constructed in close proximity to them. Designs of services, buildings or structures that require critical boundary offsets will require accurate boundary locations determined by completing a cadastral survey as defined by the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003.

Boundary corners were not marked at the time of survey.

SUBSURFACE UTILITIES
Quality Levels have been determined adopting AS5488:1:2022 the Australian Standard for Classification of Subsurface Utility Information (SUI)

- Quality Level A (QL-A, +/-50mm horizontal and vertical) the is the highest quality level. The exposed utility was directly measured.
- Quality Level B (QL-B, +/-300mm horizontal and +/-500mm vertical) The subsurface utility was traced then surveyed without being exposed.
- Quality Level C (QL-C, +/-300mm horizontal and may contain no vertical depth): The subsurface utility was plotted by correlation or an interpretation of surface features including GPR point identification.
- Quality Level D (QL-D, tolerance does not apply) is the lowest quality level. The subsurface utility was compiled from existing records only and was not surveyed.

Only Quality Level A utilities have been located accurately. All other utility alignments have tolerances that must be taken into consideration when designing services or buildings that will be constructed in close proximity to them. If these existing underground utility positions are critical for design or construction purposes, the utility location must be accurately determined by pothole verification.

Utilities were detected by Subsurface Mapping Solutions Pty Ltd on 27/07/2023 using EMI and GPR. The configuration of conduit banks shown are nominal only and are only accurate at pits.

In accordance with the Work Health and Safety Act 2011 manholes have not been entered to obtain invert levels. The invert levels shown are derived from approximate field measurements and existing records. The shapes depicting services are symbolic representations, and whilst they are accurately positioned, they are not to scale.

AERIAL PHOTOGRAPHY
Flown on the 26th July 2023 with a DJI M600 using a Sony ILCE-7RM3 camera.
Processed with Pix4DMapper using true photogrammetric techniques

LiDAR DATA
Captured on the 26th July 2023 with a Riegl MiniVux3 scanner.
Processed with RiPROCESS.
Point cloud classified with RiPROCESS.
Vertical accuracy 0.05m on bare earth.

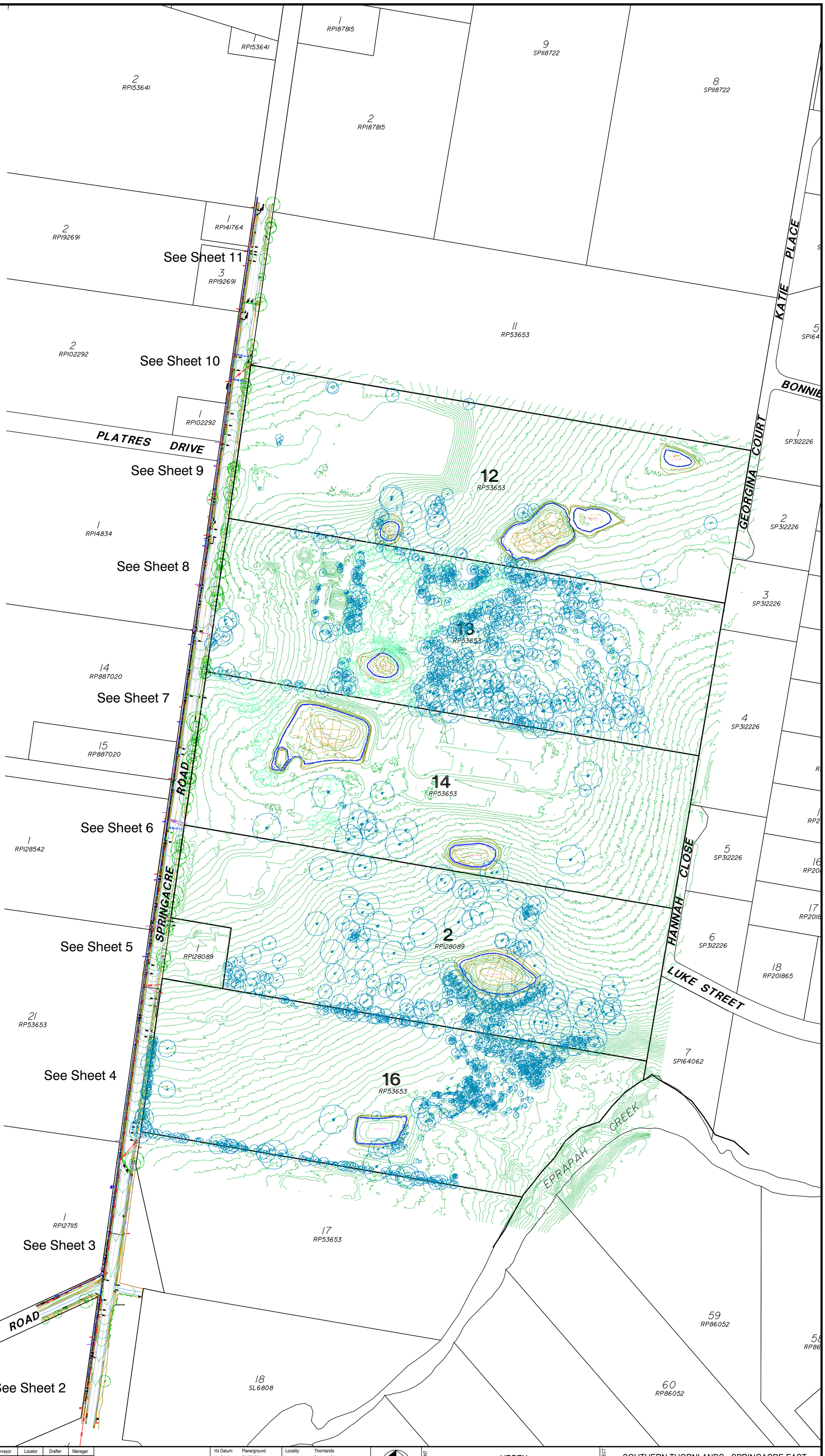
COORDINATE SYSTEM:
The survey data provided in these digital plans is on an arbitrary plane coordinate system (Based on Redlands City Council Coordinate system), with north defined by MGA2020. Unlike the MGA coordinate system, this coordinate system is not scaled (Scale factor = 1.0) and so objects in the digital data measure the same length as those objects would measure on site.

To transform the Detail Survey to MGA2020, the following parameters can be used:

Rotation: Nil
Scale factor: 0.999959917
Site Origin OPM79006
E 23,889.234
N 148,110.136
MGA2020 Origin OPM79006
E 523,880.434
N 6,949,310.921

Tree Table

ID	Species	Dia	Spread	Height
1	Gum	0.300	10.000	12.000
2	Gum	0.300	10.000	15.000
3	Gum	0.400	12.000	15.000
4	Gum	0.400	10.000	15.000
5	Gum	0.400	12.000	10.000
6	Gum	0.500	12.000	10.000
7	Gum	0.500	10.000	20.000
8	Gum	0.500	10.000	20.000
9	Gum	0.500	12.000	20.000
10	Gum	0.400	12.000	20.000
11	Gum	0.400	12.000	20.000
12	Gum	0.500	10.000	12.000
13	Gum	0.400	15.000	10.000
14	Unk.	0.800	15.000	20.000
15	Gum	0.400	10.000	20.000
16	Pine	0.500	8.000	10.000
17	Gum	0.500	12.000	15.000
18	Gum	0.300	10.000	20.000
19	Gum	0.400	8.000	15.000
20	Gum	0.400	10.000	15.000
21	Gum	0.300	10.000	15.000
22	Gum	0.300	10.000	15.000
23	Gum	0.500	10.000	20.000
24	Gum	0.500	10.000	20.000
25	Gum	0.500	15.000	20.000
26	Gum	0.300	10.000	15.000
27	Gum	0.400	6.000	10.000
28	Gum	0.600	20.000	20.000
29	Gum	0.300	6.000	12.000
30	Gum	0.600	12.000	20.000
31	Gum	0.800	20.000	20.000
32	Gum	0.300	10.000	15.000
33	Gum	0.600	20.000	20.000
34	Gum	0.500	15.000	15.000
35	Gum	0.600	15.000	15.000
36	Gum	0.500	10.000	20.000
37	Gum	0.500	8.000	15.000
38	Gum	0.400	10.000	20.000
39	Gum	0.300	6.000	10.000
40	Gum	0.500	10.000	15.000
41	Gum	0.300	10.000	15.000
42	Gum	0.500	12.000	20.000
43	Gum	0.400	10.000	15.000
44	Gum	0.400	10.000	15.000
45	Stump	0.400	0.000	0.000
46	Unk.	0.500	20.000	20.000
47	Unk.	0.500	20.000	20.000
48	Unk.	0.300	12.000	15.000
49	Gum	0.300	8.000	15.000
50	Gum	0.500	8.000	15.000
51	Unk	0.500	8.000	15.000
52	Unk	0.300	6.000	15.000
53	Gum	0.450	8.000	20.000
54	Gum	0.400	12.000	20.000
55	Gum	0.500	15.000	15.000
56	Gum	0.400	5.000	15.000
57	Gum	0.400	10.000	15.000
58	Gum	0.400	10.000	15.000
59	Gum	0.700	20.000	20.000
60	Gum	0.350	10.000	15.000
61	Gum	0.900	12.000	20.000
62	Gum	0.900	12.000	20.000
63	Gum	0.400	12.000	15.000
64	Gum	0.300	10.000	15.000
65	Gum	0.800	15.000	25.000
66	Unk.	0.800	15.000	20.000
67	Unk.	0.450	10.000	15.000
68	Unk.	0.400	10.000	15.000
69	Unk.	0.400	15.000	20.000
70	Unk.	0.900	15.000	20.000
71	Unk.	0.400	12.000	15.000
72	Unk.	0.600	15.000	20.000
73	Gum	0.500	20.000	20.000
74	Unk.	0.500	15.000	15.000
75	Gum	0.900	15.000	20.000
76	Gum	0.300	5.000	15.000
77	Gum	1.500	20.000	20.000
78	Gum	0.400	10.000	15.000
79	Gum	0.300	8.000	20.000
80	Gum	0.800	10.000	20.000
81	Gum	0.600	15.000	20.000
82	Gum	0.500	15.000	20.000
83	Gum	0.800	10.000	20.000
84	Gum	0.550	8.000	15.000
85	Unk.	0.400	6.000	15.000
86	Unk.	0.300	6.000	12.000
87	Gum	0.300	8.000	20.000
88	Gum	0.300	6.000	15.000
89	Gum	0.300	6.000	15.000
90	Paperbark	0.300	8.000	15.000
91	Gum	0.500	10.000	15.000
92	Unk.	0.350	10.000	15.000
93	Unk.	0.400	8.000	15.000
94	Gum	0.900	12.000	20.000
95	Unk.	0.350	8.000	20.000
96	Unk.	0.350	6.000	15.000
97	Gum	1.000	20.000	25.000
98	Gum	0.500	12.000	12.000
99	Unk.	0.300	8.000	15.000
100	Unk.	0.300	8.000	15.000
101	Pine	0.350	2.000	12.000
102	Gum	0.550	15.000	20.000
103	Gum	0.300	5.000	12.000
104	Gum	0.450	12.000	20.000
105	Gum	0.450	8.000	15.000
106	Gum	0.350	10.000	15.000
107	Gum	0.500	12.000	15.000
108	Gum	0.300	10.000	15.000
109	Gum	0.300	12.000	15.000
110	Gum	0.600	15.000	20.000
111	Gum	0.450	10.000	15.000
112	Paperbark	0.400	8.000	12.000
113	Gum	0.300	12.000	12.000
114	Gum	0.350	6.000	12.000
115	Gum	0.300	10.000	15.000
116	Gum	0.300	12.000	20.000
117	Gum	0.300	12.000	20.000
118	Gum	0.300	10.000	15.000
119	Gum	0.350	15.000	15.000
120	Unk.	0.400	10.000	15.000
121	Unk.	0.400	10.000	15.000



Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

40 20 0 20 40 60 80 100
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1
SCALE 1:2 000

CLIENT URBEX

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W rpsgroup.com
A TETRA TECH COMPANY

PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY

Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 1 OF 20 AU213011113 3 D

See Sheet 3

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall
Ceiling
Roof
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Manhole
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Marker
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Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe — S
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Centre chamber
Marker post
Inspect. opening
Manhole
Poo pit
Marker
Vent
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead — OHT
Telstra underground — T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead — COH
(records)
Comms underground — C
Marker post
Manhole
Marker
Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

END OF TRACE
END OF TRACE 1xP50
ID231934
ID108451
ID236641
IDPTS6887 98206
OPTICAL FIBRE
HORSE RIDERS
50KM/H
EPRAPAH RD
POST...
IL16.25 Ø450 RCP
IL16.02 Ø450 RCP
IL15.82 Ø450 RCP
ROAD SUBJECT TO FLOODING
Q TRUCKS
W Beam
T INTERSECTION
70KM AROUND CORNER
99
100
101
102
103
104
13
14
17
18
1xP100
2xP100

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
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4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE 1:200

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY

Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 2 OF 20 AU213011113 3 D

See Sheet 4

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-200mm height
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QL-D: From records, accuracy unconfirmed

Building wall
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Electric overhead — EOH
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Low Voltage — ELV
High Voltage — EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe — S
Sewer rising main — RM
Sewer Vacuum Main — VS
Centre chamber
Marker post
Inspect. opening
Manhole
Poo pit
Marker
Vent
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Marker
Kerb outlet
Telstra overhead — OHT
Telstra underground — T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground — C
Marker post
Manhole
Marker
Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
Traffic Pit
TL with light
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

RPI27115

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE 1:200

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W rpsgroup.com
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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY

Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 3 OF 20 AU213011113 3 D

See Sheet 5

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

QL-D

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead — EOH
Electric underground — E
Low Voltage — ELV
High Voltage — EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe — S
Sewer rising main — RM
Sewer Vacuum Main — VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead — OHT
Telstra underground — T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground — C
Marker post
Manhole
Marker
Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown manhole
Unknown valve
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

IL26.24
Ø450 RCP

IL25.71
Ø450 RCP

IL20.35
Ø450 RCP

IL20.22
Ø450 RCP

IL19.90
Ø375 RCP

IL19.87
Ø375 RCP

IL18.97
IL19.01
2X Ø450 RCP

IL18.65
IL18.80
2X Ø450 RCP

ID98203

ID98204

OPTICAL FIBRE

TELSTRA

BUS STOP

LOW HANGING WIRE

See Sheet 3

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
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NORTH

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 4 OF 20 AU213011113 3 D

See Sheet 6

LEGEND

General representation of subsurface utility quality levels

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-200mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Pipe or cable located by survey

Pipe or cable plotted from records (QL-D)

Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead EOH
Electric underground E
Low Voltage ELV
High Voltage EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main G
High pressure gas HPG
Low pressure gas LPG
Meter
Valve
Marker
Vent
Marker post
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead OHT
Telstra underground T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
Irrigation IR
Non Potable water WNP
Recycled water R
Water service W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground COH C
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

OPTICAL FIBRE
COMHS
HYDRANT
POST +
TELSTRA
EOH
IL35.63 Ø300 RCP
IL35.44 Ø300 RCP
IL31.63 Ø450 RCP
IL31.04 Ø450 RCP
IL28.60 Ø450 RCP
IL28.19 Ø450 RCP
IL26.24 Ø450 RCP
IL25.71 Ø450 RCP
ID6_9_2
RP128089

See Sheet 4

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
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4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE 1:200

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A TETRA TECH COMPANY

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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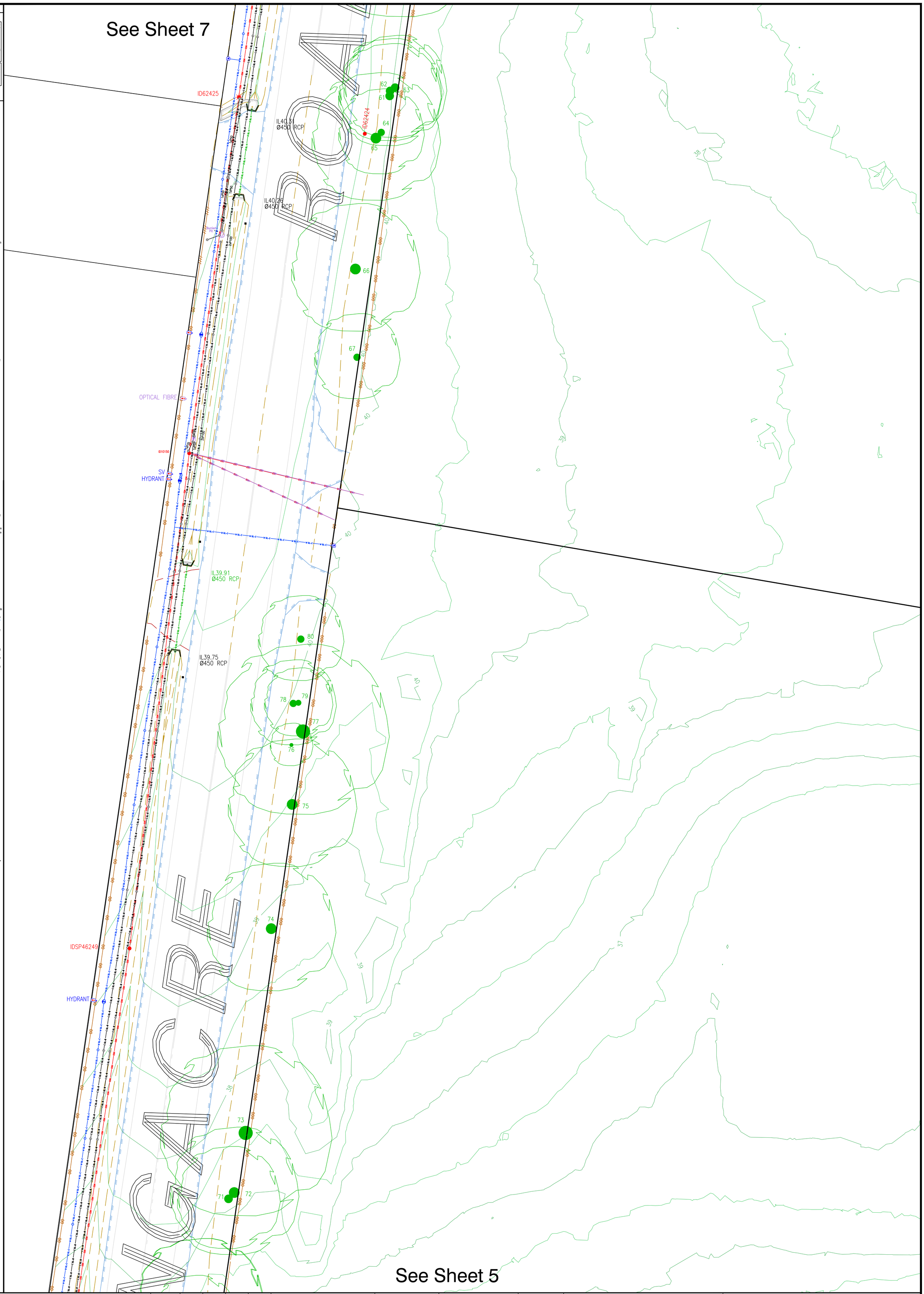
SHEET 5 OF 20 AU213011113 3 D

See Sheet 7



See Sheet 5

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
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Building wall
Ceiling
Roof
Gutter/Eave
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Downpipe
Column
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Electric underground E
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High Voltage EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main G
High pressure gas HPG
Low pressure gas LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead OHT
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Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
Irrigation IR
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Recycled water R
Water service W
Bore
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Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
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Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
(records)
Comms overhead COH
Comms underground C
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
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SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

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DETAIL and CONTOUR SURVEY
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SHEET 6 OF 20 AU213011113 3 D

See Sheet 8

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
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Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead — EOH
Electric underground — E
Low Voltage — ELV
High Voltage — EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter
Valve
Marker post
Vent
Sewer pipe — S
Sewer rising main — RM
Sewer Vacuum Main — VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Kerb outlet
Manhole
Marker
Telstra overhead — OHT
Telstra underground — T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
COH
Comms underground — C
Marker post
Manhole
Marker
Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist.directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown manhole
Unknown valve
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
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IL42.81
Ø375 RCP
HYDRANT
IL40.49
Ø375 RCP
IL40.19
Ø375 RCP
ID10149
BUS STOP
HYDRANT
IL40.50
Ø450 RCP
IL40.52
Ø450 RCP
ID62425
ID62424
IL40.51
Ø450 RCP

See Sheet 6

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
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SHEET 7 OF 20 AU213011113 3 D

See Sheet 9

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

QL-D

Pipe or cable plotted from records (QL-D)

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Ceiling
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Gutter/Eave
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Downpipe
Column
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Electric underground E
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High Voltage EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main G
High pressure gas HPG
Low pressure gas LPG
Meter
Valve
Marker
Vent
Marker post
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead OHT
Telstra underground T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
Irrigation IR
Non Potable water WNP
Recycled water R
Water service W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground COH
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

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LOS: Loss of signal
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POST

IL43.27 Ø375 RCP

IL43.26 Ø375 RCP

IL43.30 Ø375 RCP

ID10147

OPTICAL FIBRES

IL43.36 Ø375 RCP

TRUCKS TURNING

HYDRANT

OPTICAL FIBRES

ID5_195

ID0148

IL43.21 Ø375 RCP

IL42.81 Ø375 RCP

HYDRANT

19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058

See Sheet 7

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
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C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE 1:200

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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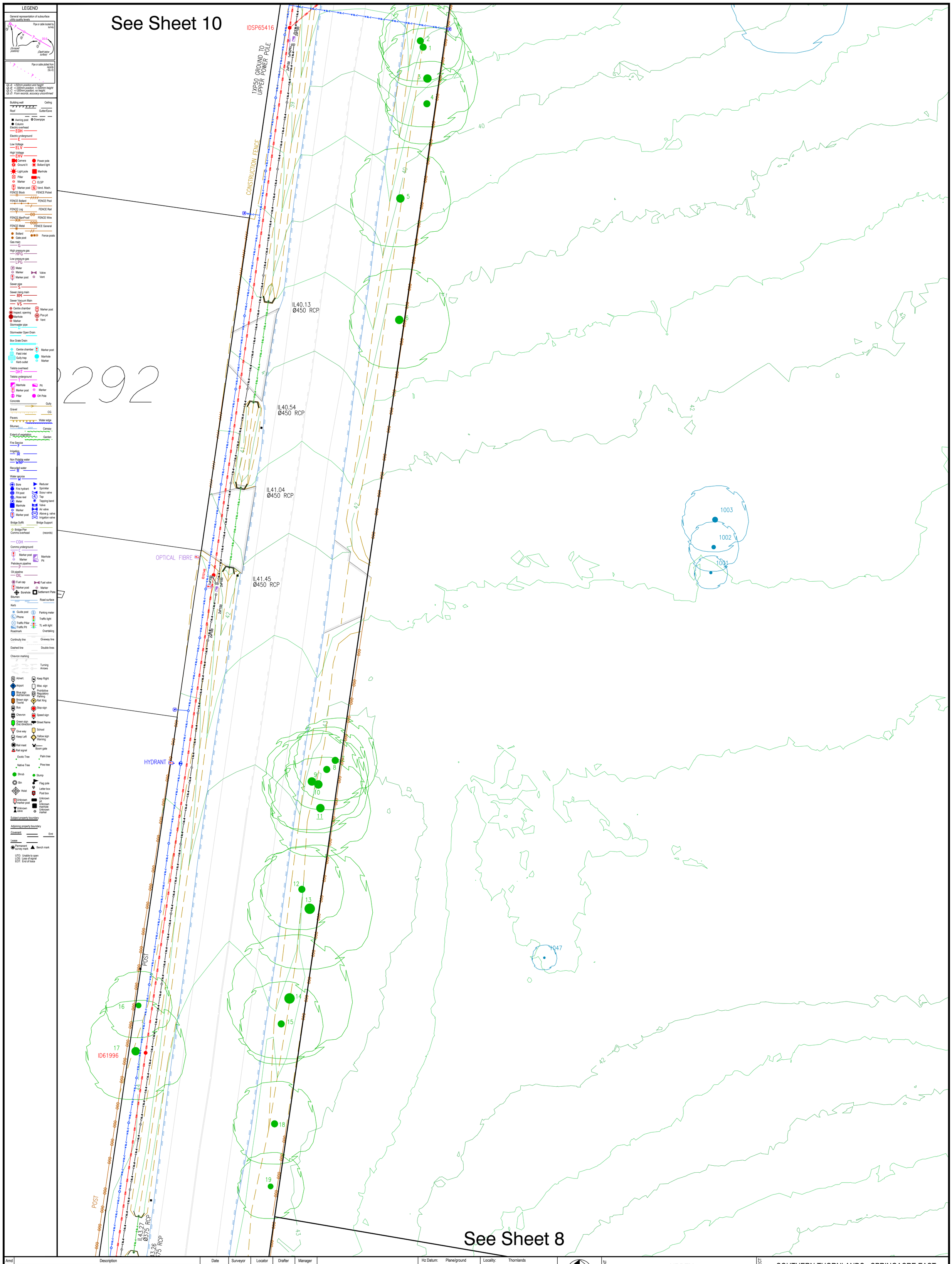
SHEET 8 OF 20 AU213011113 3 D



LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall · Ceiling · Roof · Gutter/Eave · Awning post · Downpipe · Column

Electric overhead EOH · Electric underground E · Low Voltage ELV · High Voltage EHV

Camera · Power pole · Ground lt · Bollard light · Light pole · Manhole · Pillar · Pit · Marker · ELSP · Marker post · Vend. Mach.

FENCE Block · FENCE Picket · FENCE Bollard · FENCE Pool · FENCE Log · FENCE Rail · FENCE ManProof · FENCE Wire · FENCE Metal · FENCE General · Bollard · Gate post · Fence posts

Gas main G · High pressure gas HPG · Low pressure gas LPG

Meter · Marker · Valve · Marker post · Vent

Sewer pipe S · Sewer rising main RM · Sewer Vacuum Main VS

Centre chamber · Marker post · Inspect. opening · Poo pit · Manhole · Vent · Marker

Stormwater pipe D · Stormwater Open Drain

Box Grate Drain · Centre chamber · Marker post · Field inlet · Gully trap · Manhole · Kerb outlet · Marker

Telstra overhead OHT · Telstra underground T

Manhole · Pit · Marker post · Marker · Pillar · OH Pole

Concrete · Gully · Gravel · CG · Pavers · Water edge · Bitumen · Canopy · Extent of vegetation · Garden

Fire Service F · Irrigation IR · Non Potable water WNP · Recycled water R · Water service W

Bore · Reducer · Fire hydrant · Sprinkler · FH post · Scour valve · Hose reel · Tap · Meter · Tapping band · Manhole · Valve · Marker · Air valve · Marker post · Above g. valve · Irrigation valve

Bridge Soffit · Bridge Support · Bridge Pier · Comms overhead (records)

COH · Comms underground C · Marker post · Marker · Manhole · Pit · Petroleum pipeline P · Oil pipeline OIL

Fuel cap · Fuel valve · Marker post · Marker · Borehole · Settlement Plate · Bitumen · Road surface · Kerb

Guide post · Parking meter · Phone · Traffic light · Traffic Pillar · TL with light · Traffic Pit · Roadmark · Overtaking · Continuity line · Giveway line · Dashed line · Double lines · Chevron marking · Turning Arrows

Advert. · Keep Right · Airport · Misc. sign · Blue sign Aid/Services · Prohibitive Regulatory Parking · Brown sign Tourist · Rail Xing · Bus · Stop sign · Chevron · Speed sign · Green sign Dist./directions · Street Name · Give way · School · Keep Left · Yellow sign Warning · Rail mast · Boom gate · Rail signal

Exotic Tree · Palm tree · Native Tree · Pine tree · Shrub · Stump · Bin · Flag pole · Hoist · Letter box · Post box · Unknown marker post · Unknown pit · Unknown valve · Unknown manhole · Unknown marker

Subject property boundary · Adjoining property boundary · Covenant · Emt · Lease · Permanent survey mark · Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

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Origin RL: 67.474m

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12D: AU011113 Detail Survey Overall

NORTH

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SCALE IN METERS AT ORIGINAL REDUCTION RATIO

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

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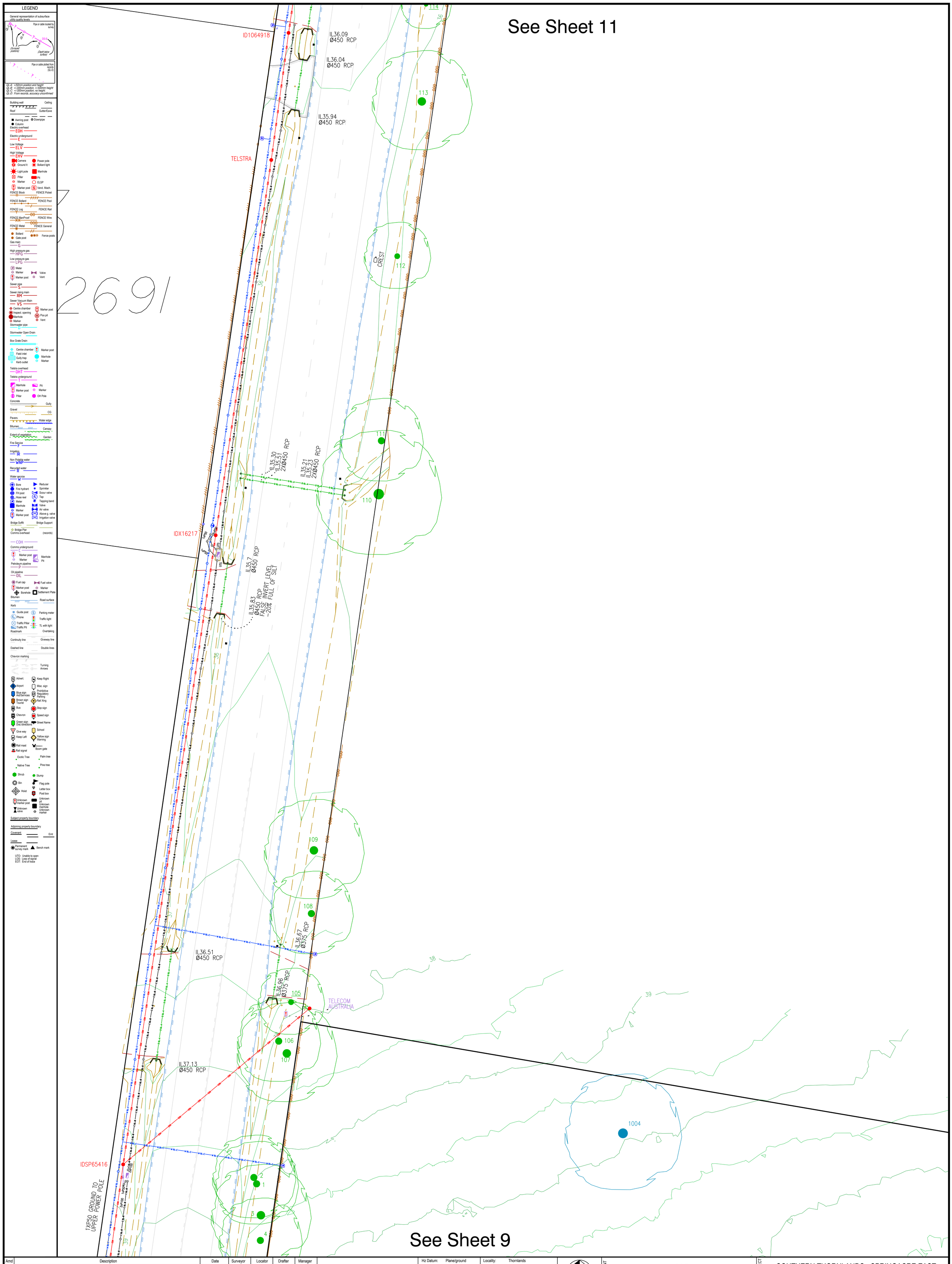
SHEET 9 OF 20 | AU213011113 3 D



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PROJECT: SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
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SHEET 10 OF 20 | AU213011113 | 3 | D

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead
Electric underground
Low Voltage
High Voltage
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Gate post
Fence posts
Gas main
High pressure gas
Low pressure gas
Meter
Marker
Valve
Marker post
Vent
Sewer pipe
Sewer rising main
Sewer Vacuum Main
Centre chamber
Marker post
Inspect. opening
Manhole
Poo pit
Marker
Vent
Stormwater pipe
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead
Telstra underground
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service
Irrigation
Non Potable water
Recycled water
Water service
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground
Marker post
Manhole
Marker
Pit
Petroleum pipeline
Oil pipeline
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

RP141764

3

RP192691

ID10144
IL36.50
IL36.46
Ø450 RCP
FALSE INVERT LEVELS
– 25% FULL OF SILT
60kmh
80kmh
ID1064918
IL36.07
Ø450 RCP
IL36.09
Ø450 RCP
IL36.04
Ø450 RCP
IL35.94
Ø450 RCP
TELSTRA
CREST
IL35.30
IL35.51
2XØ450 RCP
IL35.21
IL35.23
2XØ450 RCP
IDX16217
IL35.7
Ø450 RCP
IL35.83
Ø450 RCP
FALSE INVERT LEVEL
–20% FULL OF SILT
119
118
116
117
115
114
113
112
111
110
37
36
See Sheet 10

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
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NORTH

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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See Sheet 13

SUBSURFACE TOPOGRAPHY APPROXIMATE ONLY

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-200mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead EOH
Electric underground E
Low Voltage ELV
High Voltage EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main G
High pressure gas HPG
Low pressure gas LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead OHT
Telstra underground T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
Irrigation IR
Non Potable water WNP
Recycled water R
Water service W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground COH
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown manhole
Unknown valve
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
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NORTH

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
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SHEET 12 OF 20 AU213011113 3 D

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

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(Depth below surface)

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Ceiling
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Column
Electric overhead EOH
Electric underground E
Low Voltage ELV
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Camera
Power pole
Ground lt
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Light pole
Manhole
Pillar
Pit
Marker
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Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main G
High pressure gas HPG
Low pressure gas LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe S
Sewer rising main RM
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Centre chamber
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Inspect. opening
Poo pit
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Stormwater pipe D
Stormwater Open Drain
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Pit
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Pillar
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Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
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Non Potable water WNP
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Water service W
Bore
Reducer
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Sprinkler
FH post
Scour valve
Hose reel
Tap
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Valve
Marker
Air valve
Marker post
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Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground C
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
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Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
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Overtaking
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Giveway line
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Advert.
Keep Right
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Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
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Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
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Unknown pit
Unknown manhole
Unknown valve
Unknown marker
Subject property boundary
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Lease
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IL40.19
Ø375 RCP

See Sheet 14

See Sheet 12

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See Sheet 16

See Sheet 13

See Sheet 15

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LEGEND

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Fence posts
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Low pressure gas LPG
Meter
Marker
Valve
Marker post
Vent
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead OHT
Telstra underground T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service F
Irrigation IR
Non Potable water WNP
Recycled water R
Water service W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
(records)
Comms overhead COH
Comms underground C
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
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Brown sign Tourist
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Stop sign
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Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
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EOT: End of trace

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

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PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 14 OF 20 AU213011113 3 D

See Sheet 16

See Sheet 14

SUBSURFACE TOPOGRAPHY APPROXIMATE ONLY

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

Pipe or cable plotted from records (QL-D)

QL-A: +/-50mm position and height
QL-B: +/-300mm position, +/-300mm height
QL-C: +/-300mm position, no height
QL-D: From records, accuracy unconfirmed

Building wall
Ceiling
Roof
Gutter/Eave
Awning post
Downpipe
Column
Electric overhead — EOH
Electric underground — E
Low Voltage — ELV
High Voltage — EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
Gate post
Gas main — G
High pressure gas — HPG
Low pressure gas — LPG
Meter
Valve
Marker
Vent
Marker post
Sewer pipe — S
Sewer rising main — RM
Sewer Vacuum Main — VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
Marker
Stormwater pipe — D
Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Kerb outlet
Marker
Telstra overhead — OHT
Telstra underground — T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
Gravel
CG
Pavers
Water edge
Bitumen
Canopy
Extent of vegetation
Garden
Fire Service — F
Irrigation — IR
Non Potable water — WNP
Recycled water — R
Water service — W
Bore
Reducer
Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
Tap
Meter
Tapping band
Manhole
Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
(records)
Comms overhead — COH
Comms underground — C
Marker post
Manhole
Marker
Pit
Petroleum pipeline — P
Oil pipeline — OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
Unknown manhole
Unknown marker
Subject property boundary
Adjoining property boundary
Covenant
Emt
Lease
Permanent survey mark
Bench mark

UTO: Unable to open
LOS: Loss of signal
EOT: End of trace

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
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Hz Datum: Plane/ground
Hz Origin: PM79006
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4 2 0 2 4 6 8 10
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

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DETAIL and CONTOUR SURVEY
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SHEET 15 OF 20 AU213011113 3 D

SUBSURFACE TOPOGRAPHY APPROXIMATE ONLY

See Sheet 17

See Sheet 15

SUBSURFACE TOPOGRAPHY APPROXIMATE ONLY

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

(Surveyed position)

(Depth below surface)

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Awning post
Downpipe
Column
Electric overhead EOH
Electric underground E
Low Voltage ELV
High Voltage EHV
Camera
Power pole
Ground lt
Bollard light
Light pole
Manhole
Pillar
Pit
Marker
ELSP
Marker post
Vend. Mach.
FENCE Block
FENCE Picket
FENCE Bollard
FENCE Pool
FENCE Log
FENCE Rail
FENCE ManProof
FENCE Wire
FENCE Metal
FENCE General
Bollard
Fence posts
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Meter
Marker
Valve
Marker post
Vent
Sewer pipe S
Sewer rising main RM
Sewer Vacuum Main VS
Centre chamber
Marker post
Inspect. opening
Poo pit
Manhole
Vent
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Stormwater Open Drain
Box Grate Drain
Centre chamber
Marker post
Field inlet
Gully trap
Manhole
Marker
Kerb outlet
Telstra overhead OHT
Telstra underground T
Manhole
Pit
Marker post
Marker
Pillar
OH Pole
Concrete
Gully
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CG
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Water edge
Bitumen
Canopy
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Garden
Fire Service F
Irrigation IR
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Water service W
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Fire hydrant
Sprinkler
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Scour valve
Hose reel
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Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
Comms underground COH
Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
Settlement Plate
Bitumen
Road surface
Kerb
Guide post
Parking meter
Phone
Traffic light
Traffic Pillar
TL with light
Traffic Pit
Roadmark
Overtaking
Continuity line
Giveway line
Dashed line
Double lines
Chevron marking
Turning Arrows
Advert.
Keep Right
Airport
Misc. sign
Blue sign Aid/Services
Prohibitive Regulatory Parking
Brown sign Tourist
Rail Xing
Bus
Stop sign
Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
School
Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
Letter box
Post box
Unknown marker post
Unknown pit
Unknown valve
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Subject property boundary
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SHEET 16 OF 20 AU213011113 3 D

See Sheet 10

RP53653

LEGEND

General representation of subsurface utility quality levels

Pipe or cable located by survey

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FENCE Picket
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Marker post
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Sewer pipe S
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Marker post
Inspect. opening
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Fire hydrant
Sprinkler
FH post
Scour valve
Hose reel
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Valve
Marker
Air valve
Marker post
Above g. valve
Irrigation valve
Bridge Soffit
Bridge Support
Bridge Pier
Comms overhead
(records)
COH
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Marker post
Manhole
Marker
Pit
Petroleum pipeline P
Oil pipeline OIL
Fuel cap
Fuel valve
Marker post
Marker
Borehole
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Chevron
Speed sign
Green sign Dist./directions
Street Name
Give way
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Keep Left
Yellow sign Warning
Rail mast
Boom gate
Rail signal
Exotic Tree
Palm tree
Native Tree
Pine tree
Shrub
Stump
Bin
Flag pole
Hoist
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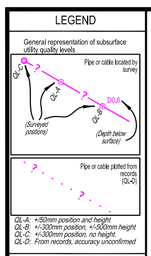
SHEET 17 OF 20 AU213011113 3 D

LEGEND



Tagged Tree Table

Tree Number	Species	Diameter	Spread	Height	Tree Number	Species	Diameter	Spread	Height	Tree Number	Species	Diameter	Spread	Height
201	Gum	0.6	16	16	300	Gum	0.2	4	12	400	Gum	0.4	15	20
202	Gum	0.6	10	12	301	Gum	0.2	4	8	401	Gum	0.35	15	18
203	Gum	0.5	10	10	302	Gum	0.5	10	25	402	Gum	0.45	10	18
204	Gum	0.5	10	15	303	Gum	0.7	15	25	403	Gum	0.4	15	10
205	Gum	0.5	8	18	304	Gum	0.15	4	12	404	Gum	0.65	15	18
206	Gum	0.6	10	18	305	Gum	0.2	4	15	405	Gum	0.25	8	18
207	Gum	0.35	6	12	306	Gum	0.15	4	10	406	Gum	0.5	15	15
208	Gum	0.3	8	15	307	Gum	0.25	6	15	407	Gum	0.5	15	15
209	Gum	0.4	12	14	308	Palm	0.2	5	8	408	Gum	0.5	15	15
210	Gum	0.6	15	18	309	Gum	0.25	6	20	409	Gum	0.55	15	15
211	Gum	0.45	8	8	310	Gum	0.15	4	12	410	Gum	0.55	15	15
212	Gum	0.45	10	14	311	Gum	0.2	5	12	411	Gum	0.55	15	15
213	Gum	0.4	10	12	312	Gum	0.35	5	22	412	Malaluka	0.45	15	15
214	Gum	0.65	10	18	313	Gum	0.3	6	20	413	Gum	0.35	10	18
215	Gum	0.5	15	18	314	Gum	0.2	6	8	414	Gum	0.3	8	12
216	Gum	0.45	8	18	315	Gum	0.15	6	8	415	Gum	0.4	8	12
217	Gum	0.2	6	10	316	Malaluka	0.2	4	8	416	Gum	0.7	20	20
218	Gum	0.4	10	12	317	Malaluka	0.3	5	10	417	Gum	0.3	10	15
219	Gum	0.3	8	16	318	Malaluka	0.5	15	25	418	Gum	0.4	15	18
220	Gum	0.45	15	15	319	Gum	0.25	9	15	419	Malaluka	0.2	4	10
221	Gum	0.25	6	8	320	Gum	0.35	9	20	420	Gum	0.35	8	10
222	Gum	0.5	18	18	321	Gum	0.2	5	8	421	Gum	0.25	5	12
223	Gum	0.6	12	20	322	Malaluka	0.15	5	8	422	Gum	0.25	5	12
224	Gum	0.6	12	20	323	Gum	0.3	8	12	423	Gum	0.25	8	10
225	Gum	0.6	12	22	324	Gum	0.2	3	20	424	Gum	0.25	10	10
226	Gum	0.65	16	25	325	Gum	0.3	15	15	425	Gum	0.3	10	15
227	Gum	0.35	5	12	326	Malaluka	0.4	10	15	426	Gum	0.3	8	12
228	Gum	0.5	15	15	327	Palm	0.25	6	15	427	Gum	0.3	10	18
229	Gum	0.65	15	25	328	Gum	0.3	10	15	428	Gum	0.3	15	18
230	Gum	0.6	10	23	329	Gum	0.2	6	10	429	Gum	0.2	5	10
231	Gum	0.5	8	23	330	Gum	0.4	8	20	430	Gum	0.5	18	20
232	Gum	0.35	8	16	331	Gum	0.3	6	20	431	Gum	0.3	10	15
233	Gum	0.5	12	18	332	Gum	0.4	10	18	432	Gum	0.35	10	18
234	Gum	0.4	8	10	333	Gum	0.4	15	22	433	Gum	0.3	4	22
235	Gum	0.5	18	20	334	Gum	0.25	6	15	434	Gum	0.3	4	18
236	Gum	0.5	18	20	335	Malaluka	0.2	5	10	435	Gum	0.3	6	22
237	Gum	0.8	18	20	336	Gum	0.25	5	18	436	Gum	0.7	20	22
238	Gum	0.25	6	10	337	Malaluka	0.3	6	10	437	Gum	0.55	20	20
239	Gum	0.3	8	10	338	Malaluka	0.35	8	15	438	Gum	0.3	8	12
240	Pociana	0.6	20	8	339	Malaluka	0.2	6	10	439	Gum	0.25	8	12
241	Gum	0.5	16	10	340	Malaluka	0.3	8	12	440	Gum	0.2	3	12
242	Gum	0.7	15	15	341	Gum	0.5	10	28	441	Gum	0.3	12	15
243	Fig	0.5	15	10	342	Gum	0.3	8	10	442	Gum	0.3	12	15
244	Gum	0.15	3	10	343	Gum	0.25	6	15	443	Gum	0.3	4	18
245	Unknown	0.3	10	8	344	Gum	0.2	4	10	444	Palm	0.25	6	18
246	Unknown	0.25	10	8	345	Gum	0.2	4	10	445	Gum	0.45	10	10
247	Unknown	0.5	12	18	346	Gum	0.2	4	8					
248	Unknown	0.25	10	8	347	Gum	0.3	12	20					
249	Gum	0.55	12	12	348	Gum	0.25	8	18					
250	Gum	0.5	8	15	349	Gum	0.6	12	10					
251	Gum	0.5	8	15	350	Gum	0.3	8	10					
252	Gum	0.45	8	12	351	Gum	0.4	8	10					
253	Gum	0.7	15	25	352	Gum	0.5	10	10					
254	Gum	0.35	8	12	353	Gum	0.4	15	18					
255	Malaluka	0.25	6	10	354	Gum	0.35	15	22					
256	Gum	0.35	12	16	355	Gum	0.4	10	20					
257	Gum	0.55	20	25	356	Malaluka	0.25	6	10					
258	Gum	0.6	15	18	357	Gum	0.3	8	18					
259	Gum	0.35	8	10	358	Gum	0.3	8	18					
260	Gum	0.6	15	25	359	Malaluka	0.4	6	15					
261	Gum	0.35	10	12	360	Malaluka	0.2	4	15					
262	Malaluka	0.15	4	8	361	Gum	0.4	8	25					
263	Gum	0.6	20	25	362	Gum	0.5	20	28					
264	Malaluka	0.25	5	15	363	Gum	0.35	15	25					
265	Malaluka	0.3	6	15	364	Gum	0.45	15	25					
266	Malaluka	0.55	10	15	365	Gum	0.3	8	22					
267	Malaluka	0.3	6	12	366	Gum	0.6	20	25					
268	Malaluka	0.25	3	12	367	Gum	0.4	12	25					
269	Malaluka	0.25	3	15	368	Gum	0.25	5	15					
270	Malaluka	0.25	3	10	369	Gum	0.3	5	18					
271	Malaluka	0.3	6	10	370	Gum	0.6	15	18					
272	Malaluka	0.35	8	10	371	Gum	0.4	15	15					
273	Malaluka	0.3	5	10	372	Gum	0.3	15	15					
274	Malaluka	0.25	6	12	373	Gum	0.25	5	12					
275	Malaluka	0.25	6	12	374	Gum	0.4	8	12					
276	Malaluka	0.2	5	6	375	Gum	0.5	15	22					
277	Gum	0.3	8	18	376	Gum	0.35	10	12					
278	Malaluka	0.3	5	12	377	Gum	0.3	15	18					
279	Malaluka	0.3	5	15	378	Gum	0.4	15	18					
280	Gum	0.35	8	18	379	Gum	0.35	10	18					
281	Malaluka	0.3	8	6	380	Gum	0.4	15	18					
282	Malaluka	0.4	10	15	381	Gum	0.4	15	20					
283	Malaluka	0.4	8	18	382	Gum	0.4	15	20					
284	Gum	0.55	8	25	383	Gum	0.2	10	15					
285	Gum	0.25	6	18	384	Gum	0.3	10	18					
286	Gum	0.25	6	18	385	Gum	0.3	12	15					
287	Gum	0.3	6	18	386	Gum	0.3	12	12					
288	Gum	0.25	6	18	387	Gum	0.2	5	20					
289	Gum	0.25	6	12	388	Gum	0.4	15	18					
290	Gum	0.25	8	12	389	Gum	0.25	6	15					
291	Gum	0.4	12	15	390	Gum	0.6	15	18					
292	Malaluka	0.4	6	15	391	Gum	0.25	4	15					
293	Gum	0.3	4	8	392	Malaluka	0.15	8	12					
294	Gum	0.3	5	12	393	Malaluka	0.3	8	10					
295	Gum	0.3	8	15	394	Malaluka	0.2	8	10					
296	Gum	0.3	8	18	395	Gum	0.5	15	20					
297	Gum	0.2	6	8	396	Gum	0.6	15	18					
298	Gum	0.45	15	18	397	Gum	0.3	15	12					
299	Gum	0.65	18	25	398	Gum	0.3	10	15					
					399	Gum	0.5	15	15					

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m
Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE #####

CLIENT URBEX

RPS Australia Asia Pacific
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A TETRA TECH COMPANY

PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 18 OF 20 AU213011113 3 D

Tree Number	Species	Dia	Spread	Height
1001	BLACK TEA TREE	0.30	4	3
1002	BLACK TEA TREE	0.45	6	14
1003	BLACK TEA TREE	0.40	8	14
1004	BLOODWOOD	0.40	14	16
1005	BLOODWOOD	0.40	12	16
1006	BLOODWOOD	0.35	12	14
1007	BLOODWOOD	0.45	14	18
1008	BLOODWOOD	0.30	12	14
1009	GUM	0.85	14	20
1010	BLOODWOOD	0.50	20	18
1011	GUM	0.65	14	14
1012	GUM	0.20	10	13
1013	GUM	0.20	7	10
1014	GUM	0.20	10	13
1015	GUM	0.20	9	14
1016	GUM	0.40	11	14
1017	GUM	0.40	20	22
1018	MAHOGANY	0.15	8	12
1019	BLOODWOOD	0.40	12	16
1020	GUM	0.45	10	9
1021	BLOODWOOD	0.45	14	18
1022	BRUSHBOX	0.50	16	22
1023	BRUSHBOX	1.80	25	25
1024	BLOODWOOD	0.30	20	25
1025	BLOODWOOD	0.60	20	20
1026	BRUSHBOX	0.30	12	15
1027	BRUSHBOX	0.30	12	18
1028	BRUSHBOX	0.30	20	20
1029	BRUSHBOX	0.25	6	9
1030	MAHOGANY	0.35	10	8
1031	BRUSHBOX	0.35	12	13
1032	BRUSHBOX	1.20	25	18
1033	GUM	1.20	25	19
1034	MAHOGANY	0.90	22	18
1035	BRUSHBOX	0.35	15	17
1036	MAHOGANY	0.10	5	8
1037	BLOODWOOD	0.30	12	15
1038	BLUEGUM	0.20	9	13
1039	DEAD	0.60	18	16
1040	GUM	0.20	8	9
1041	GUM	0.20	12	14
1042	GUM	0.10	6	9
1043	GUM	0.10	6	9
1044	GUM	0.10	8	9
1045	DEAD	0.40	10	13
1046	GUM	0.35	16	16
1047	BRUSHBOX	0.15	3	7
1048	GUM	0.45	16	15
1049	MAHOGANY	0.95	25	26
1050	GUM	0.40	16	15
1051	PAPER BARK	0.25	9	10
1052	GUM	0.40	20	22
1053	BLOODWOOD	0.20	8	14
1054	PAPER BARK	0.10	6	12
1055	PAPER BARK	0.10	6	12
1056	PAPER BARK	0.15	6	7
1057	BLOODWOOD	0.40	14	16
1058	STRINGY BARK	0.10	3	7
1059	BLOODWOOD	0.15	12	13
1061	BLOODWOOD	0.40	10	18
1062	BLOODWOOD	0.30	8	12
1063	BLOODWOOD	0.40	18	16
1064	BLOODWOOD	0.50	11	20
1065	BRUSHBOX	0.50	14	18
1066	BLOODWOOD	0.25	12	14
1067	BLOODWOOD	0.20	8	9
1068	BLOODWOOD	0.30	8	14
1069	BLOODWOOD	0.25	8	12
1070	ROUGH BARKED APPLE	0.15	10	12
1071	BRUSHBOX	0.40	14	18
1072	SWAMPBOX	0.15	6	8
1073	SCRIBLY GUM	1.50	20	22
1074	BLUE GUM	1.50	2	5
1075	SCRIBBLY GUM	1.50	2	5
1076	SCRIBBLY GUM	1.50	2	5
1077	SCRIBBLY GUM	0.08	8	5
1078	PAPER BARK	0.06	2	5
1079	BLUE GUM	0.06	2	5
1080	BLOODWOOD	0.05	1	5
1081	SWAMP BOX	0.05	3	6
1082	SWAMP BOX	0.05	3	4
1083	MAHOGANY	0.13	3	8
1084	PAPER BACK	0.18	4	8
1085	BLOODWOOD	0.07	2	8
1086	SWAMPBOX	0.07	2	8
1087	SWAMPBOX	0.30	6	10
1088	SWAMPBOX	0.12	4	10
1089	SWAMPBOX	0.12	2	10
1090	SWAMPBOX	0.19	5	7
1091	BLOODWOOD	0.25	8	10
1092	BLUEGUM	0.09	3	8
1093	BLOODWOOD	0.20	10	10
1094	BLOODWOOD	0.50	15	6
1095	BLOODWOOD	0.65	10	13
1096	BLOODWOOD	0.02	2	5
1097	BLOODWOOD	0.10	5	10
1098	BLOODWOOD	0.65	25	22
1099	GUM	0.07	3	6
1100	BLOODWOOD	0.01	3	6
1101	GUM	0.25	8	13
1102	BLOODWOOD	0.55	18	15
1103	SWAMP BOX	0.08	3	6
1104	BLUE GUM	0.20	6	9
1105	SWAMP BOX	0.05	2	5
1106	BLUE GUM	0.05	2	5
1107	SWAMP BOX	0.05	2	5
1108	BLUE GUM	0.12	6	7
1109	SWAMP BOX	0.09	6	7
1110	SWAMP BOX	0.09	6	7
1111	SWAMP BOX	0.12	5	7
1112	SWAMP BOX	0.09	2	5
1113	SWAMP BOX	0.09	2	5
1114	SWAMP BOX	0.09	2	6
1115	BRUSHBOX	0.55	16	17
1116	SWAMPBOX	0.15	6	10
1117	PAPERBACK	0.25	9	6
1118	PAPERBACK	0.25	9	8
1119	PAPERBACK	0.25	9	14
1120	SWAMPBOX	0.10	4	6
1121	SWAMPBOX	0.25	14	18
1122	PAPERBACK	0.10	4	5
1123	PAPERBACK	0.10	5	8
1124	SWAMPBOX	0.25	8	16
1125	SWAMPBOX	0.09	5	13
1126	SWAMPBOX	0.15	9	14
1127	SWAMPBOX	0.07	2	7
1128	SWAMPBOX	0.20	12	18
1129	SWAMPBOX	0.07	5	7
1130	SWAMPBOX	0.20	11	14
1131	SWAMPBOX	0.20	12	14
1132	SWAMPBOX	0.10	6	8
1133	SWAMPBOX	0.15	7	12
1134	SWAMPBOX	0.15	6	13
1135	SWAMPBOX	0.30	12	16
1136	SWAMPBOX	0.20	8	12
1137	SWAMPBOX	0.08	2	8
1138	SWAMPBOX	0.20	12	13
1139	PAPERBOX	0.15	4	14
1140	BLUE GUM	0.30	12	16
1141	SWAMPBOX	0.08	3	7
1142	BLOODWOOD	0.35	20	17
1143	SWAMPBOX	0.12	3	9
1144	SWAMPBOX	0.15	6	9
1145	SWAMPBOX	0.20	8	12
1146	SWAMPBOX	0.35	13	18
1147	SWAMPBOX	0.12	3	9
1148	SWAMPBOX	0.15	6	11
1149	SWAMPBOX	0.09	4	5
1150	SWAMPBOX	0.15	4	8
1151	SWAMPBOX	0.15	4	8
1152	SWAMPBOX	0.30	10	18
1153	SWAMPBOX	0.25	8	16
1154	SWAMPBOX	0.07	3	9
1155	SWAMPBOX	0.10	3	7
1156	SWAMPBOX	0.12	3	16
1157	SWAMPBOX	0.15	8	16
1158	SWAMPBOX	0.30	8	18
1159	SWAMPBOX	0.05	2	8
1160	SWAMPBOX	0.05	2	8
1161	SWAMPBOX	0.15	8	17
1162	SWAMPBOX	0.05	3	8
1163	SWAMPBOX	0.15	8	16
1164	SWAMPBOX	0.15	10	16
1165	PAPERBARK	0.40	8	16
1166	SWAMPBOX	0.40	10	17
1167	PAPERBARK	0.30	12	15
1168	SWAMPBOX	0.10	4	8
1169	SWAMPBOX	0.30	12	14
1170	SWAMPBOX	0.30	10	9
1171	SWAMPBOX	0.10	4	12
1172	PAPERBACK	0.20	7	11
1173	SWAMPBOX	0.10	3	5
1174	SWAMPBOX	0.20	3	9
1175	PAPERBARK	0.20	6	9
1176	SWAMPBOX	0.35	10	16
1177	SWAMPBOX	0.35	10	15
1178	SWAMPBOX	0.35	6	15
1179	SWAMPBOX	0.30	4	10
1180	SWAMPBOX	0.20	5	12
1181	SWAMPBOX	0.20	6	11
1182	SWAMPBOX	0.30	7	15
1183	SWAMPBOX	0.30	10	17
1184	SWAMPBOX	0.45	12	18
1185	SWAMPBOX	0.20	8	14
1186	SWAMPBOX	0.20	6	16
1187	SWAMPBOX	0.15	6	16
1188	SWAMPBOX	0.15	4	16
1189	SWAMPBOX	0.15	4	14
1190	SWAMPBOX	0.10	4	10
1191	SWAMPBOX	0.10	3	10
1192	SWAMPBOX	0.10	3	11
1193	SWAMPBOX	0.15	3	12
1194	SWAMPBOX	0.35	12	14
1195	SWAMPBOX	0.35	8	9
1196	SWAMPBOX	0.20	5	11
1197	SWAMPBOX	0.20	12	6
1198	SWAMPBOX	0.30	7	9
1199	SWAMPBOX	0.15	3	8
1200	SWAMPBOX	0.30	4	12
1201	SWAMPBOX	0.07	2	6
1202	SWAMPBOX	0.07	3	6
1203	SWAMPBOX	0.10	4	10
1204	SWAMPBOX	0.10	8	13
1205	SWAMPBOX	0.15	8	13
1206	SWAMPBOX	0.15	8	13
1207	SWAMPBOX	0.20	9	13
1208	SWAMPBOX	0.30	9	12
1209	SWAMPBOX	0.20	9	10
1210	SWAMPBOX	0.35	5	10
1211	SWAMPBOX	0.15	5	10
1212	SWAMPBOX	0.07	6	10
1213	SWAMPBOX	0.10	3	6
1214	SWAMPBOX	0.10	6	4
1215	SWAMPBOX	0.40	12	18
1216	SWAMPBOX	0.05	4	7
1217	SWAMPBOX	0.10	6	14
1218	SWAMPBOX	0.10	3	14
1219	SWAMPBOX	0.10	6	7
1220	SWAMPBOX	0.05	3	5
1221	SWAMPBOX	0.05	4	8
1222	SWAMPBOX	0.10	4	8
1223	SWAMPBOX	0.05	4	6
1224	SWAMPBOX	0.05	4	6
1225	SWAMPBOX	0.10	5	6
1226	PAPERBACK	0.25	10	12
1227	SWAMP BOX	0.07	2	7
1228	SWAMP BOX	0.07	2	7
1229	SWAMP BOX	0.07	2	7
1230	SWAMP BOX	0.20	8	10
1231	SWAMP BOX	0.50	30	25
1232	SWAMP BOX	0.20	8	12
1233	SWAMP BOX	0.15	8	9
1234	SWAMP BOX	0.10	4	8
1235	SWAMP BOX	0.30	11	18
1236	SWAMP BOX	0.20	8	12
1237	BLOODWOOD	0.15	7	8
1238	SWAMPBOX	0.20	7	9
1239	GUM	0.65	30	25
1240	SWAMPBOX	0.30	8	11
1241	SWAMPBOX	0.10	5	11
1242	SWAMPBOX	0.05	6	8
1243	SWAMPBOX	0.15	7	8
1244	SWAMPBOX	0.35	8	11
1245	SWAMPBOX	0.07	3	7
1246	SWAMPBOX	0.30	12	14
1247	PAPERBARK	0.12	8	9
1248	SWAMPBOX	0.15	4	9
1249	SWAMPBOX	0.30	12	16
1250	SWAMPBOX	0.30	12	20
1251	PAPERBARK	0.25	12	20
1252	SWAMPBOX	0.25	10	20
1253	SWAMPBOX	0.10	4	10
1253A	SWAMPBOX	0.12	8	10
1254	SWAMPBOX	0.10	3	5
1255	SWAMPBOX	0.20	9	11
1256	SWAMPBOX	0.20	7	9
1257	SWAMPBOX	0.30	9	11
1258	SWAMPBOX	0.06	3	6
1259	SWAMPBOX	0.25	8	14
1260	PAPERBARK	0.12	8	9
1261	SWAMPBOX	0.20	10	8
1262	SBRIBBLY GUM	0.20	8	12
1263	PAPERBARK	0.15	4	10
1264	SWAMPBOX	0.15	6	10
1265	PAPERBARK	0.15	4	10
1266	SWAMPBOX	0.15	8	12
1267	BLOODWOOD	0.25	12	14
1268	SWAMPBOX	0.20	9	11
1269	SWAMPBOX	0.25	12	11
1270	SWAMPBOX	0.25	9	11
1271	PAPERBARK	0.20	4	11
1272	SWAMPBOX	0.15	4	11
1273	BLUEGUM	0.15	4	11
1274	PAPERBARK	0.15	4	15
1275	SWAMPBOX	0.15	4	15
1276	PAPERBARK	0.15	4	8
1277	SWAMPBOX	0.10	4	9
1278	SWAMPBOX	0.25	10	11
1279	SILVERGUM	0.07	5	5
1280	SWAMPBOX	0.10	3	8
1281	SWAMPBOX	0.10	3	8
1282	SWAMPBOX	0.15	3	12
1283	SWAMPBOX	0.12	8	10
1284	SWAMPBOX	0.04	2	5
1285	SWAMPBOX	0.20	8	11
1286	SWAMPBOX	0.10	5	6
1287	SWAMPBOX	0.25	9	12
1288	SWAMPBOX	0.20	13	12
1289	SWAMPBOX	0.10	8	10
1290	SWAMPBOX	0.20	8	12
1291	SWAMPBOX	0.25	12	13
1292	SWAMPBOX	0.30	12	10
1293	SWAMPBOX	0.10	4	6
1294	SWAMPBOX	0.20	9	12
1295	SWAMPBOX	0.15	7	5
1296	SWAMPBOX	0.25	10	12
1297	SWAMPBOX	0.20	10	10
1298	SWAMPBOX	0.15	6	9
1299	SWAMPBOX	0.35	9	12
1300	SWAMPBOX	0.25	10	12
1301	SWAMPBOX	0.15	10	11
1302	PAPERBARK	0.15	10	11
1303	SWAMPBOX	0.10	4	9
1304	SWAMPBOX	0.10	4	9
1305	PAPERBARK	0.55	15	18
1306	SWAMPBOX	0.20	8	18
1307	SWAMPBOX	0.25	6	16
1308	SWAMPBOX	0.07	6	5
1309	SWAMPBOX	0.07	4	5
1310	SWAMPBOX	0.07	4	5
1311	SWAMPBOX	0.25	10	14
1312	SWAMPBOX	0.10	10	10
1313	SWAMPBOX	0.15	7	10
1314	SWAMPBOX	0.15	7	10
1315	SWAMPBOX	0.07	3	8
1316	PAPERBACK	0.07	3	8
1317	PAPERBACK	0.20	10	8
1318	ROUGH BARK APPLE	0.15	10	4
1319	SWAMPBOX	0.05	3	8
1320	SWAMPBOX	0.05	7	5
1321	SWAMPBOX	0.20	9	11
1322	PAPERBARK	0.10	5	11
1323	SWAMPBOX	0.10	5	6
1324	PAPERBACK	0.20	5	10
1325	PAPERBACK	0.20	10	8
1326	PAPERBACK	0.07	4	8
1327	SWAMPBOX	0.15	8	10
1328	PAPERBACK	0.10	6	6
1329	PAPERBACK	0.25	12	8
1330	PAPERBACK	0.20	15	9
1331	PAPERBACK	0.20	6	9
1332	SWAMPBOX	0.15	5	9
1333	SWAMPBOX	0.15	5	9
1334	BLUEGUM	0.25	10	16
1335	SWAMPBOX	0.10	5	9
1336	PAPERBARK	0.35	10	10
1337	SWAMPBOX	0.08	3	8
1338	MAHOGANY	0.20	8	17
1339	SWAMPBOX	0.10	8	16
1340	MAHOHANY	0.20	5	12
1341	MAHOGANY	0.10	8	9
1342	MAHOGANY	0.25	9	13
1343	BLOODWOOD	0.35	13	19
1344	MAHOGANY	0.25	9	11
1345	BRUSHBOX	0.40	15	11
1346	BLOODWOOD	0.20	9	12
1347	PAPERBARK	0.20	10	12
1348	SWAMPBOX	0.20	8	10
1349	PAPERBARK	0.20	8	10
1350	PAPERBARK	0.10	5	6
1351	SCRIBBLY GUM	0.40	16	20
1352	SCRIBBLY GUM	0.35	16	20
1353	SWAMPBOX	0.05	3	7
1354	SWAMPBOX	0.30	8	18
1355	SWAMPBOX	0.15	9	11
1356	SCRIBBLY GUM	0.30	14	16
1357	SCRIBBLY GUM	0.30	12	16
1358	PAPERBARK	0.05	13	6
1359	PAPERBARK	0.12	6	7
1360	SWAMPBOX	0.10	4	8
1361	PAPERBACK	0.20	4	8
1362	PAPERBACK	0.20	4	8
1363	SCRIBBLY GUM	0.40	20	23
1364	SWAMPBOX	0.08	4	5
1365	BLOODWOOD	0.30	20	25
1366	SWAMPBOX	0.10	4	13
1367	BLOODWOOD	0.10	4	13
1368	PAPERBARK	0.15	3	8
1369	SWAMPBOX	0.25	10	12
1370	SWAMPBOX	0.15	6	7
1371	BLOODWOOD	0.15	4	7
1372	SWAMPBOX	0.35	15	20
1373	PAPERBACK	0.05	3	6
1374	SCRIBBLY GUM	0.20	5	10
1375	STRINGY BARK	0.55	20	25
1376	SWAMPBOX	0.25	12	14
1377	SCRIBBLY GUM	0.80	25	22
1378	BLOODWOOD	0.25	8	14
1379	BLOODWOOD	0.10	4	7
1380	SCRIBBLY GUM	0.30	9	12
1381	BLOODWOOD	0.25	15	18
1382	BLOODWOOD	0.50	15	20
1383	ROUGH BARKED APPLE	0.20	12	18
1384	PAPER BARK	0.08	4	10
1385	BLOODWOOD	0.35	9	15
1386	BLOODWOOD	0.30	8	19
1387	BLOODWOOD	0.30	8	19
1388	BRUSHBOX	0.25	8	19
1389	BLOODWOOD	0.20	5	19
1390	BLOODWOOD	0.35	15	20
1391	SCRIBBLY GUM	0.45	20	22
1392	BLOODWOOD	0.40	10	18
1393	SWAMPBOX	0.25	8	18
1394	SWAMPBOX	0.25	4	18
1395	SWAMPBOX	0.15	5	8
1396	SCRIBBLY GUM	0.30	7	18
1397	BLOODWOOD	0.30	7	18
1398	STRINGY BARK	0.30	9	13
1399	BLOODWOOD	0.30	9	17
1400	BRUSHBOX	0.30	9	15
1401	BRUSHBOX	0.35	15	19
1402	BLOODWOOD	0.20	10	14
1403	BRUSHBOX	0.45	15	16
1404	BRUSHBOX	0.45	15	16
1405	BRUSHBOX	0.25	15	16
1406	SCRIBBLY GUM	0.25	10	16
1407	BRUSHBOX	0.25	10	17
1408	SCRIBBLY GUM	0.20	25	25
1409	PAPER BARK	0.50	10	18
1410	PAPER BARK	0.40	10	18
1411	PAPER BARK	0.15	5	10
1412	PAPER BARK	0.30	8	10
1413	SCRIBBLY GUM	0.25	12	10
1414	BLOODWOOD	0.05	2	8
1415	BLOODWOOD	0.20	8	16
1416	PAPERBARK	0.05	3	15
1417	PAPERBARK	0.05	3	7
1418	BLOODWOOD	0.20	5	16
1419	BLOODWOOD	0.20	8	12
1420	BRUSHBOX	0.35	15	16
1421	BRUSHBOX	0.35	12	16
1422	RUFFBARK APPLE	0.30	14	15
1423	RUFFBARK APPLE	0.40	14	16
1424	SWAMPBOX	0.20	8	10
1425	SWAMPBOX	0.20	6	9
1426	SWAMPBOX	0.25	8	15
1427	SWAMPBOX	0.15	6	9
1428	SWAMPBOX	0.10	5	8
1429	SWAMPBOX	0.35	10	13
1430	SWAMPBOX	0.25	8	13
1431	SWAMPBOX	0.15	6	10
1432	SWAMPBOX	0.20	8	12
1433	GUM	0.30	10	16
1434	GUM	0.30	10	16
1435	GUM	0.10	8	6
1436	BLOODWOOD	0.40	10	16
1437	GUM	0.40	15	15
1438	GUM	0.35	12	16
1439	BLOODWOOD	0.30	16	18
1440	BLOODWOOD	0.45	12	15
1441	BLOODWOOD	0.45	12	15
1442	GUM	0.30	9	12
1443	STRINGY BARK	0.50	18	20
1444	STRINGY BARK	0.20	8	10
1445	STRINGY BARK	0.10	4	6
1446	BLOODWOOD	0.40	15	20
1447	PAPERBARK	0.10	6	7
1448	STRINGY BARK	0.30	12	16
1449	BLOODWOOD	0.30	12	17
1450	BLOODWOOD	0.40	15	18
1451	SWAMPBOX	0.30	12	12
1452	BLOODWOOD	0.40	12	15
1453	BLOODWOOD	0.40	12	15
1454	STRINGY BARK	0.25	9	11
1455	SWAMPBOX	0.10	6	8
1456	MAHOG	0.90	25	20
1457	STRINGY BARK	0.90	30	25
1458	SWAMPBOX	0.20	6	12
1459	SWAMPBOX	0.20	8	12
1460	SWAMPBOX	0.30	9	12
1461	SWAMPBOX	0.15	6	8
1462	SWAMPBOX	0.15	6	7
1463	SWAMPBOX	0.15	9	7
1464	SWAMPBOX	0.15	6	7
1465	SWAMPBOX	0.20	6	7
1466	SWAMPBOX	0.25	6	12
1467	SWAMPBOX	0.10	4	8
1468	SWAMPBOX	0.10	4	8
1469	SWAMPBOX	0.15	4	7
1470	SWAMPBOX	0.15	8	9
1471	BRUSHBOX	0.08	3	5
1472	BRUSHBOX	0.25	8	10
1473	SWAMPBOX	0.40	18	16
1474	BLOODWOOD	0.30	18	15
1475	BLOODWOOD	0.20	6	10
1476	SWAMPBOX	0.10	5	6
1477	SWAMPBOX	0.45	16	20
1478	SWAMPBOX	0.08	2	5
1479	SWAMPBOX	0.15	6	9
1480	SWAMPBOX	0.09	5	5
1481	BLOODWOOD	0.25	8	12
1482	SWAMPBOX	0.08	4	6
1483	SWAMPBOX	0.15	4	7
1484	SWAMPBOX	0.15	4	7
1485	SWAMPBOX	0.15	4	7
1486	SWAMPBOX	0.30	8	12
1487	SWAMPBOX	0.10	4	6
1488	SWAMPBOX	0.20	8	8
1489	SWAMPBOX	0.10	8	9
1490	BRUSHBOX	0.35	12	18
1491	BRUSHBOX	0.35	12	16
1492	SWAMPBOX	0.30	10	17
1493	BRUSHBOX	0.35	10	17
1494	PAPERBACK	0.15	8	12
1495	BRUSHBOX	0.20	4	12
1496	PAPERBACK	0.20	8	10
1497	PAPERBACK	0.07	10	5
1498	PAPERBACK	0.07	5	10
1499	BLUEGUM	0.45	15	23
1500	SWAMPBOX	0.10	3	8
1501	BLOODWOOD	0.25	5	14
1502	BRUSHBOX	0.35	15	18
1503	SWAMP BOX	0.20	6	12
1504	SWAMP BOX	0.10	6	12
1505	SWAMP BOX	0.30	10	12
1506	PAPERBARK	0.15	10	8
1507	BLOODWOOD	0.20	9	11
1508	BLOODWOOD	0.10	9	9
1509	SWAMPBOX	0.30	8	9
1510	BLOODWOOD	0.70	20	25
1511	BLOODWOOD	0.40	14	18
1512	BLOODWOOD	0.75	25	29
1513	SWAMPBOX	0.20	6	9
1514	SWAMPBOX	0.20	4	7
1515	SWAMPBOX	0.35	4	10
1516	SWAMPBOX	0.35	15	9
1517	SWAMPBOX	0.35	15	16
1518	SWAMPBOX	0.55	30	20
1519	SWAMPBOX	0.40	25	20
1520	SWAMPBOX	0.40	15	18
1521	STRINGY BARK	0.50	16	20
1522	SWAMPY BARK	0.30	6	8
1523	SWAMPY BARK	0.30	10	16
1524	SWAMPY BARK	0.30	20	16
1525	SWAMP BOX	0.30	20	16
1526	SWAMP BOX	0.20	20	16
1527	BLOODWOOD	0.15	4	7
1528	ROUGH BARKED APPLE	0.45	16	19
1529	ROUGH BARKED APPLE	0.25	9	12
1530	ROUGH BARKED APPLE	0.10	4	6
1531	STRINGY BARK	0.35	15	14
1532	ROUGH BARK APPLE	0.10	12	8
1533	ROUGH BARK APPLE	0.25	15	12
1534	ROUGH BARK APPLE	0.20	12	7
1535	ROUGH BARK APPLE	0.25	7	6
1536	SWAMP BOX	0.15	5	7
1537	BLOODWOOD	0.25	10	12
1538	SCRIBBLY GUM	0.70	25	25
1539	STRINGY BARK	0.15	4	7
1540	ROUGH BARK APPLE	0.25	12	9
1541	ROUGH BARK APPLE	0.30	12	18
1542	ROUGH BARK APPLE	0.45	20	22
1543	ROUGH BARK APPLE	0.15	10	14
1544	ROUGH BARK APPLE	0.20	6	10
1545	SWAMPY BARK	0.55	15	19
1546	ROUGH BARK APPLE	0.15	6	7
1547	ROUGH BARK APPLE	0.60	20	25
1548	ROUGH BARK APPLE	0.35	8	19
1549	SWAMPY BARK	0.20	4	12
1550	ROUGH APPLE BARK	0.50	22	20
1551	ROUGH APPLE BARK	0.40	20	14
1552	ROUGH APPLE BARK	0.20	8	15
1553	SCRIBBLY GUM	0.50	14	15
1554	STRINGY BARK	0.30	14	8
1555	ROUGH APPLE BARK	0.25	11	10
1556	ROUGH APPLE BARK	0.45	18	23
1557	ROUGH APPLE BARK	0.45	18	16
1558	ROUGH APPLE BARK	0.25	9	12
1559	ROUGH APPLE BARK	0.35	20	14
1560	ROUGH APPLE BARK	0.20	20	14
1561	ROUGH APPLE BARK	0.25	8	16
1562	ROUGH APPLE BARK	0.10	2	8
1563	ROUGH APPLE BARK	0.20	8	14
1564	ROUGH APPLE BARK	0.30	8	15
1565	ROUGH APPLE BARK	0.20	8	15
1566	BLOODWOOD	0.30	20	16
1567	ROUGH APPLE BARK	0.30	15	18
1568	ROUGH APPLE BARK	0.20	10	12
1569	ROUGH APPLE BARK	0.20	10	12
1570	ROUGH APPLE BARK	0.05	2	6
1571	ROUGH APPLE BARK	0.10	5	8
1572	SCRIBBLY GUM	0.25	10	16
1573	ROUGH APPLE BARK	0.40	16	20
1574	RED BLOODWOOD	0.15	12	10
1575	SCRIBBLY GUM	0.60	30	20
1576	SCRIBBLY GUM	0.70	25	20
1577	SWAMP BOX	0.20	7	11
1578	BLOODWOOD	0.40	15	18
1579	SWAMPBOX	0.30	9	12
1580	SWAMPBOX	0.35	18	16
1581	ROUGH APPLE BARK	0.30	10	18
1582	ROUGH APPLE BARK	0.15	10	6
1583	SWAMPBOX	0.15	10	12
1584	SWAMPBOX	0.35	10	16
1585	SWAMPBOX	0.15	3	4
1586	SWAMPBOX	0.15	3	8
1587	SWAMPBOX	0.15	3	4
1588	SWAMPBOX	0.15	3	6
1589	SWAMPBOX	0.15	3	6
1590	SWAMPBOX	0.15	8	8
1591	SWAMPBOX	0.25	13	16
1592	SWAMPBOX	0.20	10	16
1593	SCRIBBLY GUM	0.45	24	20
1594	SWAMPBOX	0.40	25	20
1595	SWAMPBOX	0.20	8	11
1596	SWAMPBOX	0.15	6	12
1597	SWAMPBOX	0.50	18	22
1598	SWAMPBOX	0.20	8	10
1599	SWAMPBOX	0.15	4	12
1600	SWAMPBOX	0.09	3	10
1601	SWAMPBOX	0.08	4	6
1602	SWAMPBOX	0.65	25	20
1603	SWAMPBOX	0.15	6	15
1604	SWAMPBOX	0.35	30	20
1605	SWAMPBOX	0.25	30	16
1606	SWAMPBOX	0.15	6	12
1607	PAPERBACK	0.08	4	7
1608	BLOODWOOD	0.25	15	10
1609	BLOODWOOD	0.10	4	7
1610	SWAMPBOX	0.12	4	10
1611	SWAMPBOX	0.35	10	13
1612	STRINGYBARK	0.10	9	5
1613	SWAMPBOX	0.20	6	9
1614	SWAMPBOX	0.20	6	9
1615	SWAMPBOX	0.25	6	13
1616	SWAMPBOX	0.35	15	13
1617	BLOODWOOD	0.40	15	18
1618	SWAMPBOX	0.35	10	18
1619	SWAMPBOX	0.25	9	13
1620	SWAMPBOX	0.15	9	10
1621	SWAMPBOX	0.15	9	10
1622	SWAMPBOX	0.30	9	16
1623	SWAMPBOX	0.15	6	8
1624	SWAMPBOX	0.08	3	6
1625	SWAMPBOX	0.25	14	16
1626	SWAMPBOX	0.35	14	20
1627	SWAMPBOX	0.45	15	22
1628	SWAMPBOX	0.30	10	17
1629	SWAMPBOX	0.20	3	5
1630	SWAMPBOX	0.15	5	7
1631	SWAMPBOX	0.35	15	20
1632	PAPERBACK	0.25	15	11
1633	SWAMPBOX	0.20	8	11
1634	SWAMPBOX	0.25	14	13
1635	SWAMPBOX	0.15	10	6
1636	SWAMPBOX	0.25	8	12
1637	PAPERBACK	0.15	4	12
1638	BLOODWOOD	0.20	9	12
1639	SWAMPBOX	0.15	9	12
1640	SWAMPBOX	0.25	9	14
1641	SWAMPBOX	0.15	6	12
1642	SWAMPBOX	0.20	6	11
1643	SWAMPBOX	0.45	9	20
1644	SWAMPBOX	0.30	9	20
1645	SWAMPBOX	0.25	12	16
1646	BLUEGUM	0.25	15	12
1647	SWAMPBOX	0.25	8	12
1648	SWAMPBOX	0.20	13	15
1649	SWAMPBOX	0.20	12	14
1650	SCRIBBLY GUM	0.30	15	18
1651	SCRIBBLY GUM	0.45	20	22
1652	SWAMPBOX	0.15	9	13
1653	BLUEGUM	0.15	6	15
1654	SWAMPBOX	0.20	15	9
1655	SWAMPBOX	0.30	12	18
1656	SWAMPBOX	0.08	3	6
1657	SWAMPBOX	0.08	3	7
1658	SWAMPBOX	0.20	12	10
1659	SWAMPBOX	0.25	13	18
1660	SWAMPBOX	0.30	13	18
1661	SWAMPBOX	0.30	12	15
1662	SWAMPBOX	0.80	25	20
1663	SWAMPBOX	0.09	3	5
1664	SCRIBBLY GUM	0.40	15	20
1665	PAPERBACK	0.30	13	18
1666	PAPERBACK	0.30	12	16
1667	SWAMPBOX	0.35	25	20
1668	SWAMPBOX	0.15	7	15
1669	SWAMPBOX	0.20	12	14
1670	SWAMPBOX	0.30	12	17
1671	SWAMPBOX	0.45	22	20
1672	SWAMPBOX	0.15	15	16
1673	SWAMPBOX	0.20	5	10
1674	SWAMPBOX	0.35	20	18
1675	SWAMPBOX	0.25	20	18
1676	BLOODWOOD	0.30	20	18
1677	SWAMPBOX	0.25	15	16
1678	SWAMPBOX	0.25	25	6
1679	SWAMPBOX	0.30	20	16
1680	SWAMPBOX	0.40	20	22
1681	SWAMPBOX	0.30	12	16
1682	SWAMPBOX	0.20	5	18
1683	SWAMPBOX	0.20	5	18
1684	SWAMPBOX	0.40	20	20
1685	SWAMPBOX	0.60	25	20
1686	SWAMPBOX	0.45	8	14
1687	BLOODWOOD	0.70	20	20
1688	BLOODWOOD	0.70	28	22
1689	SWAMPBOX	0.25	15	18
1690	SWAMPBOX	0.40	14	17
1691	SWAMPBOX	0.45	14	18
1692	SWAMPBOX	0.45	20	20
1693	SWAMPBOX	0.35	15	18
1694	BLOODWOOD	0.35	18	25
1695	SCRIBBLY GUM	0.30	12	15
1696	SCRIBBLY GUM	0.25	12	15
1697	SCRIBBLY GUM	0.50	16	22
1698	SCRIBBLY GUM	0.60	18	22
1699	SCRIBBLY GUM	0.60	25	22
1700	SWAMPBOX	0.15	8	9
1701	BLOODWOOD	0.25	18	22
1702	BLOODWOOD	0.80	25	28
1703	SCRIBBLY GUM	0.75	25	20
1704	SWAMPBOX	0.15	5	7
1705	SWAMPBOX	0.40	25	20
1706	SCRIBBLY GUM	0.60	25	20
1707	BLOODWOOD	0.20	12	14
1708	SWAMPBOX	0.40	16	18
1709	SCRIBBLY GUM	0.30	10	16
1710	SCRIBBLY GUM	0.80	30	25
1711	SCRIBBLY GUM	0.20	10	10
1712	ROUGH BARK APPLE	0.20	13	10
1713	SCRIBBLY GUM	0.25	15	18
1714	SWAMPBOX	0.15	6	14
1715	SCRIBBLY GUM	0.80	30	25
1716	SWAMPBOX	0.15	12	14
1717	SWAMPBOX	0.25	14	16
1718	SWAMPBOX	0.10	4	8
1719	SWAMPBOX	0.25	8	15
1720	ROUGH BARK APPLE	0.20	13	18
1721	PAPERBACK	0.10	5	5
1722	SWAMPBOX	0.25	12	15
1723	SWAMPBOX	0.20	8	11
1724	SWAMPBOX	0.20	6	11
1725	ROUGH BARK APPLE	0.30	20	22
1726	SWAMPBOX	0.25	15	20
1727	BLOODWOOD	0.20	10	12
1728	PAPERBACK	0.15	9	8
1729	SWAMPBOX	0.20	12	15
1730	SCRIBBLY GUM	0.25	12	16
1731	SWAMPBOX	0.10	4	8
1732	ROUGH BARK APPLE	0.10	4	7
1733	PAPERBACK	0.08	4	7
1734	BLUEGUM	0.15	6	8
1735	BLOODWOOD	0.35	25	20
1736	SCRIBBLY GUM	0.45	30	20
1737	SCRIBBLY GUM	0.65	25	20
1738	PAPERBACK	0.10	3	5
1739	PAPERBACK	0.20	8	8
1740	BLOODWOOD	0.40	20	22
1741	PAPERBACK	0.20	8	5
1742	SWAMPBOX	0.15	7	8
1743	SWAMPBOX	0.20	10	16
1744	SWAMPBOX	0.10	2	12
1745	SCRIBBLY GUM	0.40	15	20
1746	SWAMPBOX	0.15	6	9
1747	SWAMPBOX	0.30	13	14
1748	ROUGH BARK APPLE	0.25	15	18
1749	SWAMPBARK	0.20	8	14
1750	ROUGH BARK APPLE	0.25	13	18
1751	SWAMPBOX	0.15	6	8
1752	SWAMPBOX	0.25	12	18
1753	SWAMPBOX	0.25	12	15
1754	SCRIBBLY GUM	0.35	15	18
1755	BLOODWOOD	0.40	16	20
1756	SWAMPBOX	0.10	4	8
1757	SWAMPBOX	0.10	4	6
1758	PAPERBACL	0.15	8	12
1759	PAPERBACK	0.35	12	16
1760	SWAMP BOX	0.10	5	12
1761	SWAMPBOX	0.15	5	8
1762	SWAMPBOX	0.25	8	14
1763	SWAMPBOX	0.10	8	14
1764	SWAMPBOX	0.10	3	6
1765	PAPERBACK	0.20	16	18
1766	ROUGH BARK APPLE	0.30	12	15
1767	SWAMPBOX	0.15	5	7
1768	PAPERBARK	0.10	9	5
1769	SWAMPBOX	0.10	6	8
1770	SCRIBBLY GUM	0.40	18	22
1771	SWAMPBOX	0.15	8	12
1772	SWAMPBOX	0.05	2	6
1773	PAPERBACK	0.15	15	8
1774	SWAMPBOX	0.25	5	8
1775	SWAMPBOX	0.08	2	5
1776	SWAMPBOX	0.08	2	5
1777	SWAMPBOX	0.08	2	5
1778	SWAMPBOX	0.08	2	5
1779	SWAMPBOX	0.20	11	14
1780	SCRIBBLY GUM	1.30	30	25
1781	SCRIBBLY GUM	0.60	13	14
1782	SCRIBBLY GUM	0.80	30	25
1783	BLOODWOOD	0.55	20	25
1784	SCRIBBLY GUM	0.70	25	20
1785	SCRIBBLY GUM	0.70	25	20
1786	SCRIBBLY GUM	1.00	30	25
1787	BLOODWOOD	0.60	25	20
1788	BLOODWOOD	0.60	25	20
1789	BLOODWOOD	0.60	25	20
1790	BLUEGUM	0.65	20	25
1791	BLOODWOOD	0.60	18	25
1792	BLOODWOOD	0.70	30	25
1793	BLOODWOOD	0.70	30	20
1794	BLOODWOOD	0.60	18	25
1795	SWAMPBOX	0.75	30	23
1796	BLOODWOOD	0.95	30	25
1797	CORYMIBA	0.70	35	20
1798	SWAMPBOX	0.12	3	9
1799	BRUSHBOX	0.06	3	5
1800	BRUSHBOX	0.20	4	8
1801	BLOODWOOD	0.50	25	20
1802	SWAMPBOX	0.70	25	25
1803	SCRIBBLY GUM	1.10	25	30
1804	BLUEGUM	0.55	20	25
1805	SWAMPBOX	0.50	25	20
1806	SWAMPBOX	0.50	25	20
1807	PAPERBARK	0.80	25	20
1808	SWAMPBOX	0.25	7	14
1809	SWAMPBOX	0.25	7	14
1810	SWAMPBOX	0.25	7	14
1811	SWAMPBOX	0.20	7	14
1812	SWAMPBOX	0.20	6	14
1813	SWAMPBOX	0.10	6	14
1814	SWAMPBOX	0.30	7	15
1815	SWAMPBOX	0.30	7	15
1816	SWAMPBOX	0.50	20	25
1817	PAPERBARK	0.50	15	12
1818	SWAMPBOX	0.75	25	30
1819	BLOODWOOD	0.95	25	30
1820	SCRIBBLY GUM	0.85	30	28
1821	SWAMPBOX	0.25	15	25
1822	SWAMPBOX	0.70	25	25
1823	BLOODWOOD	0.85	25	22
1824	BLOODWOOD	0.50	15	25
1825	BLOODWOOD	1.00	30	33
1826	BLOODWOOD	0.50	12	15
1827	SWAMPBOX	0.70	30	25
1828	PAPERBACK	0.40	18	19
1829	PAPERBACK	0.35	20	18
1830	SWAMPBOX	0.40	16	18
1831	PAPERBACK	0.45	28	20
1832	BLUEGUM	0.45	16	20
1833	SWAMPBOX	0.80	30	20
1834	ROUGH BARK APPLE	1.00	20	20
1835	BLUEGUM	0.75	25	30
1836	ROUGH BARK APPLE	0.35	20	25
1837	SCRIBBLY GUM	0.85	20	25
1838	SCRIBBLY GUM	0.65	20	25
1839	SCRIBBLY GUM	0.50	20	25
1840	STRINGY BARK	0.15	6	8
1841	STRINGY BARK	0.20	8	10
1842	STRINGY BARK	0.15	8	10
1843	STRINGY BARK	0.20	6	14
1844	STRINGY BARK	0.10	2	5
1845	STRINGY BARK	0.10	4	7
1846	STRINGY BARK	0.25	6	12
1847	STRINGY BARK	0.15	4	9
1848	STRINGY BARK	0.08	6	5
1849	STRINGY BARK	0.10	6	9
1850	STRINGY BARK	0.09	3	6
1851	STRINGY BARK	0.25	15	16
1852	STRINGY BARK	0.45	20	25
1853	SCRIBBLY GUM	0.90	25	30
1854	SWAMPBOX	0.70	15	25
1855	SWAMPBOX	0.55	15	25
1856	SWAMPBOX	0.50	15	20
1857	PAPERBARK	0.50	15	18
1858	SWAMPBOX	0.50	15	20
1859	STRINGY BARK	0.45	15	18
1860	STRINGY BARK	0.45	15	25
1861	SWAMPBOX	1.00	30	33
1862	SWAMPBOX	1.10	25	30
1863	SCRIBBLY GUM	0.75	25	30
1864	STRINGY BARK	0.75	20	30
1865	BLOODWOOD	0.40	20	30
1866	BLOODWOOD	0.70	20	30
1867	BLOODWOOD	0.50	20	14
1868	BLOODWOOD	0.70	25	20
1869	BLOODWOOD	0.65	25	30
1870	STRINGY BARK	0.70	25	20
1871	BLOODWOOD	0.60	25	30
1872	SWAMPBOX	0.60	20	20
1873	SWAMPBOX	0.65	20	30
1874	SCRIBBLYGUM	1.00	30	35
1875	BLOODWOOD	0.50	30	20
1876	SCRIBBLY GUM	1.30	25	30
1877	SCRIBBLY GUM	0.90	25	30
1878	BLOODWOOD	0.95	20	30
1879	BLOODWOOD	0.65	25	30
1880	SWAMPBOX	0.70	25	30
1881	SWAMPBOX	0.75	30	30
1882	BRUSHBOX	0.40	20	30
1883	SCRIBBLY GUM	0.35	30	20
1884	PAPERBARK	0.60	16	20
1885	PAPERBARK	0.35	20	16
1886	SCRIBBLY GUM	0.40	20	20
1887	PAPERBACK	0.55	25	19
1888	PAPERBACK	0.25	4	6
1889	PAPERBACK	0.35	16	18
1890	SCRIBBLY GUM	0.70	30	20
1891	PAPERBACK	0.25	15	12
1892	SWAMPBOX	0.10	5	8
1893	SCRIBBLY GUM	0.45	25	30
1894	SCRIBBLY GUM	0.50	25	30
1895	GUM DOUBLE	0.70	20	18
1896	CORYMBIA	0.45	8	12
1897	MELAEUCA	0.15	4	8
1898	MELALUCA	0.15	10	8
1899	MELALUCA	0.25	10	8
1900	MELALUCA	0.50	10	5
1901	MELALEUCA	0.15	4	6
1902	EUCALYPTUS	0.20	8	10
1903	MELALEUCA	0.15	6	8
1904	MELALEUCA	0.40	4	4
1905	MELALEUCA	0.25	6	8
1906	MELALEUCA	0.15	4	6
1907	MELALEUCA	0.30	6	8
1908	MELALEUCA	0.30	8	8
1909	MELALEUCA	0.30	6	8
1910	MELALEUCA	0.30	8	8
1911	MELALEUCA	0.25	5	5
1912	EUCALYPTUS	0.30	10	8
1913	MELALEUCA	0.25	10	10
1914	MELALEUCA	0.30	8	10
1915	MELALEUCA	0.30	8	8
1916	EUCALYPTUS	0.70	20	15
1917	BRUSHBOX	0.45	15	10
1918	GUM	0.30	10	8
1919	EUCALYPTUS	0.80	20	15
1920	EUCALYPTUS	0.70	15	10
1921	BRUSHBOX	0.90	15	10
1922	CORYMBIA	0.50	15	12
1923	GUM	0.70	20	19
1924	GUM	0.60	20	18
1925	EUCALYPTUS	0.40	10	8
1926	CORYMBIA	0.50	15	12
1927	EUCALYPTUS	0.60	15	12
1928	EUCALYPTUS	0.60	20	15
1929	GUM	0.60	10	15
1930	CORYMBIA	0.35	15	15
1931	CORYMBIA	0.50	18	15
1932	GUM	0.35	8	10
1933	GUM	0.70	18	15
1934	EUCALYPTUS	0.60	15	12
1935	BRUSHBOX	0.10	20	25
1936	GUM	0.80	15	15
1937	CORYMBIA	0.60	15	12
1938	GUM	0.70	15	12
1939	GUM	0.55	12	10
1940	BRUSHBOX	0.70	15	15
1941	SWAMPBOX	0.70	12	15
1942	CORYMBIA	0.40	10	12
1943	CORYMBIA	0.35	10	12
1944	GUM	0.40	10	8
1945	SWAMPBOX	0.20	4	8
1946	CORYMBIA	0.25	4	8
1947	EUCALYPYUS	0.30	8	10
1948	SWAMPBOX	0.25	8	10
1949	SWAMPBOX	0.15	5	8
1950	SWAMPBOX	0.35	10	15
1951	CORYMBIA	0.50	8	15
1952	SWAMPBOX	0.70	10	10
1953	CORYMBIA	0.30	12	15
1954	CORYMBIA	0.50	12	15
1955	CORYMBIA	0.50	12	15
1956	CORYMBIA	0.50	12	15
1957	SWAMPBOX	0.15	5	10
1958	BRUSHBOX	0.50	15	15
1959	GUM	1.00	20	15
1960	EUCALYPTUS	0.60	15	15
1961	EUCALYPTUS	0.80	15	15
1962	GUM	0.40	2	5
1963	GUM	0.50	10	12
1964	CORYMBIA	0.50	10	12
1965	EUCALYPTUS	0.70	10	12
1966	BRUSHBOX	0.40	6	5
1967	BRUSHBOX	0.25	4	8
1968	CORYMBIA	0.50	5	10
1969	SWAMPBOX	0.10	3	3
1970	SWAMPBOX	0.35	8	10
1971	SWAMPBOX	0.30	8	10
1972	SWAMPBOX	0.15	5	8
1973	SWAMPBOX	0.30	5	8
1974	EUCALYPTUS	0.20	4	5
1975	SWAMPBOX	0.20	4	4
1976	SWAMPBOX	0.10	3	4
1977	CORYMBIA	0.35	8	10
1978	CORYMBIA	0.15	8	8
1979	SWAMPBOX	0.15	4	5
1980	GUM	0.60	15	12
1981	GUM	0.15	5	5
1982	CORYMBIA	0.15	5	5
1983	CORYMBIA	0.20	5	10
1984	CORYMBIA	0.10	5	8
1985	EUCALYPTUS	0.20	8	10
1986	EUCALYPTUS	0.25	8	12
1987	CORYMBIA	0.10	4	5
1988	CORYMBIA	0.30	5	10
1989	SWAMPBOX	0.10	4	6
1990	EUCALYPTUS	0.10	4	6
1991	GUM	0.35	15	12
1992	CORYMBIA	0.60	20	18
1993	ANGOPHORA	0.15	8	6
1994	GUM	0.30	15	15
1995	EUCALYPTUS	0.15	8	6
1996	EUCALYPTUS	0.20	4	6
1997	CORYMBIA	0.30	10	15
1998	CORYMBIA	0.30	8	12
1999	EUCALYPTUS	0.30	20	15
2000	SWAMPBOX	0.20	5	10
2001	EUCALYPTUS	0.50	15	15
2002	CORYMBIA	0.10	2	5
2003	CORYMBIA	0.10	2	5
2004	SWAMPBOX	0.10	4	6
2005	EUCALYPTUS	0.15	5	6
2006	EUCALYPTUS	0.50	18	18
2007	MELALEUCA	0.35	18	16
2008	ANGOPHORA	0.20	10	8
2009	SWAMPBOX	0.20	8	6
2010	CORYMBIA	0.20	8	8
2011	CORYMBIA	0.20	8	8
2012	CORYMBIA	0.20	8	10
2013	CORYMBIA	0.20	8	10
2014	EUCALYPTUS	0.10	4	5
2015	CORYMBIA	0.10	4	8
2016	SWAMPBOX	0.10	3	5
2017	CORYMIBA	0.10	3	4
2018	SWAMPBOX	0.05	3	4
2019	EUCALYPTUS	0.25	10	15
2020	EUCALYPTUS	0.35	15	15
2021	SWAMPBOX	0.20	10	12
2022	SWAMPBOX	0.10	5	4
2023	EUCALYPTUS	0.30	15	15
2024	EUCALYPTUS	0.20	10	12
2025	SWAMPBOX	0.15	5	8
2026	EUCALYPTUS	0.20	10	12
2027	EUCALYPTUS	0.20	10	12
2028	GUM	0.30	10	15
2029	EUCALYPTUS	0.10	5	5
2030	EUCALYPTUS	0.20	8	8
2031	EUCALYPTUS	0.20	8	8
2032	MELALEUCA	0.15	6	5
2033	MELALEUCA	0.15	6	5
2034	MELALEUCA	0.10	4	5
2035	MELALEUCA	0.10	2	6
2036	MELALEUCA	0.15	2	6
2037	MELALEUCA	0.10	2	4
2038	EUCALYPTUS	0.25	8	10
2039	EUCALYPTUS	0.10	2	4
2040	MELALEUACA	0.30	8	6
2041	SWAMPBOX	0.05	2	4
2042	MELALEUCA	0.15	4	6
2043	MELALEUCA	0.10	4	5
2044	CORYMBIA	0.10	2	4
2045	SWAMPBOX	0.05	2	4
2046	MELALEUCA	0.10	2	5
2047	GUM	0.30	15	20
2048	CORYMBIA	0.15	5	5
2049	CORYMBIA	0.30	10	8
2050	GUM	0.30	15	12
2051	EUCALYPTUS	0.10	4	4
2052	CORYMBIA	0.15	4	4
2053	CORYMBIA	0.20	4	4
2054	CORYMBIA	0.15	4	4
2055	CORYMBIA	0.40	8	10
2056	GUM	0.30	6	15
2057	ANGOPHORA	0.10	4	5
2058	CORYMBIA	0.10	4	5
2059	MELALEUCA	0.20	6	5
2060	BRUSHBOX	0.10	4	5
2061	CORYMBIA	0.10	4	5
2062	CORYMBIA	0.30	10	8
2063	SWAMPBOX	0.10	4	6
2064	GUM	0.30	15	15
2065	GUM	0.50	15	15
2066	GUM	0.10	5	4
2067	MELALEUCA	0.10	4	3
2068	CORYMBIA	0.10	10	8
2069	EUCALYPTUS	0.50	25	20
2070	GUM	0.40	20	20
2071	SWAMPBAEK	0.10	2	4
2072	SWAMPBOX	0.10	4	4
2073	MELALEUCA	0.15	6	4
2074	EUCALYPTUS	0.60	20	15
2075	CORYMBIA	0.20	10	10
2076	SWAMPBOX	0.10	2	5
2077	SWAMPBOX	0.10	2	5
2078	MELALEUCA	0.20	5	5
2079	SWAMPBOX	0.10	2	5
2080	MELALEUCA	0.15	2	4
2081	GUM	0.30	10	15
2082	SWAMPBOX	0.10	4	5
2083	GUM	1.10	30	25
2084	melalecula	0.35	6	6
2085	SWAMPBOX	0.20	8	6
2086	MELALEUCA	0.40	8	8
2087	SWAMPBOX	0.20	6	5
2088	MELALEUCA	0.20	6	8
2089	MELALEUCA	0.70	10	8
2090	MELALEUCA	0.70	10	8
2091	MELALEUCA	0.50	10	8
2092	MELALEUCA	0.30	10	6
2093	SWAMPBOX	0.30	10	8
2094	MELALEUCA	0.30	8	6
2095	MELALEUCA	0.10	4	5
2096	MELALEUCA	0.10	4	5
2097	SWAMPBOX	0.10	2	6
2098	MELALEUCA	0.10	2	4
2099	MELALEUCA	0.10	4	5
2100	SWAMPBOX	0.07	2	4
2101	SWAMPBOX	0.15	4	6
2102	SWAMPBOX	0.07	2	4
2103	MELALEUCA	0.50	10	12
2104	SWAMPBOX	0.15	4	10
2105	SWAMPBOX	0.10	4	8
2106	MELALEUCA	0.40	6	8
2107	MELALEUCA	0.40	10	8
2108	SWAMPBOX	0.15	4	6
2109	SWAMPBOX	0.15	4	8
2110	SCRIBBLY GUM	0.60	15	15
2111	SWAMPBOX	0.15	6	8
2112	SWAMPBOX	0.30	6	8
2113	SWAMPBOX	0.40	6	10
2114	SCRIBBLY GUM	0.10	2	5
2115	SCRIBBLY GUM	0.40	10	10
2116	SWAMPBOX	0.20	4	8
2117	SWAMPBOX	0.15	4	6
2118	SWAMPBOX	0.20	4	6
2119	SCRIBBLY GUM	0.70	30	20
2120	CORYMBIA	0.10	2	4
2121	SWAMPBOX	0.10	2	4
2122	SWAMPBOX	0.20	5	6
2123	SCRIBBLY GUM	0.60	20	15
2124	SWAMPBOX	0.10	5	8
2125	SWAMPBOX	0.30	15	12
2126	SWAMPBOX	0.10	2	6
2127	SWAMPBOX	0.07	2	5
2128	SWAMPBOX	0.20	10	10
2129	SWAMPBOX	0.10	4	8
2130	SWAMPBOX	0.30	6	10
2131	SWAMPBOX	0.10	4	4
2132	SWAMPBOX	0.20	6	10
2133	MELALEUCA	0.20	6	6
2134	MELALEUCA	0.30	10	8
2135	MELALEUCA	0.30	6	5
2136	MELALEUCA	0.20	4	6
2137	CORYMBIA	0.40	10	10
2138	SCRIBBLY GUM	0.40	15	17
2139	SWAMPBOX	0.10	2	4
2140	SCRIBBBLY GUM	0.30	15	17
2141	GUM	0.40	10	17
2142	SWAMPBOX	0.15	4	8
2143	MELALEUCA	0.30	15	10
2144	GUM	0.40	10	18
2145	SWAMPBOX	0.10	2	6
2146	CORYMBIA	0.20	6	10
2147	SWAMPBOX	0.20	6	10
2148	SWAMPBOX	0.20	6	10
2149	SWAMPBOX	0.15	6	6
2150	CORYMBIA	0.35	20	16
2151	SWAMPBOX	0.25	6	12
2152	CORYMBIA	0.20	6	6
2153	SWAMPBOX	0.20	6	8
2154	GUM	0.30	8	12
2155	GUM	0.10	4	5
2156	GUM	0.15	4	6
2157	SWAMPBOX	0.35	8	12
2158	MELALEUCA	0.60	10	12
2159	SWAMPBOX	0.20	10	12
2160	SWAMPBOX	0.20	10	10
2161	SWAMPBOX	0.30	6	8
2162	SWAMPBOX	0.20	6	6
2163	SWAMPBOX	0.30	10	12
2164	SWAMPBOX	0.30	10	10
2165	SWAMPBOX	0.30	10	10
2166	SWAMPBOX	0.30	10	10
2167	MELALEUCA	0.30	10	10
2168	MELALEUCA	0.15	8	8
2169	GUM	0.40	25	20
2170	SWAMPBOX	0.20	10	12
2171	MELALEUCA	0.25	16	12
2172	MELALEUCA	0.60	20	18
2173	MELALEUCA	0.20	10	10
2174	GUM	0.40	20	20
2175	SWAMPBOX	0.40	15	15
2176	SWAMPBOX	0.30	10	15
2177	SWAMPBOX	0.10	4	4
2178	GUM	0.40	10	20
2179	SWAMPBOX	0.20	4	8
2180	MELALEUCA	0.70	12	12
2181	SWAMPBOX	0.25	8	8
2182	SWAMPBOX	0.15	4	6
2183	SWAMPBOX	0.20	8	8
2184	SWAMPBOX	0.10	6	5
2185	SWAMPBOX	0.40	10	12
2186	SWAMPBOX	0.30	12	12
2187	GUM	0.20	6	15
2188	MELALEUCA	0.30	6	13
2189	MELALEUCA	0.10	4	4
2190	MELALEUCA	0.10	4	4
2191	SWAMPBOX	0.20	10	10
2192	SWAMPBOX	0.15	6	6
2193	SWAMPBOX	0.20	10	10
2194	SWAMPBOX	0.30	6	10
2195	MELALEUCA	0.25	10	8
2196	SWAMPBOX	0.25	10	14
2197	SWAMPBOX	0.15	4	14
2198	SWAMPBOX	0.20	6	12
2199	SWAMPBOX	0.20	6	8
2200	SWAMPBOX	0.20	2	4
2201	SWAMPBOX	0.15	4	10
2202	MELALEUCA	0.35	10	12
2203	SWAMPBOX	0.20	6	12
2204	SWAMPBOX	0.15	6	10
2205	SWAMPBOX	0.30	6	10
2206	CORYMBIA	0.30	20	15
2207	SWAMPBOX	0.25	10	10
2208	CORYMBIA	0.20	4	8
2209	SWAMPBOX	0.10	2	3
2210	CORYMBIA	0.25	10	12
2211	SWAMPBOX	0.10	3	7
2212	SWAMPBOX	0.20	8	12
2213	CORYMBIA	0.30	10	15
2214	SWAMPBOX	0.20	4	7
2215	SWAMPBOX	0.20	8	10
2216	SWAMPBOX	0.15	4	6
2217	SWAMPBOX	0.20	5	6
2218	SWAMPBOX	0.20	10	12
2219	GUM	0.10	4	6
2220	SWAMPBOX	0.20	6	10
2221	SWAMPBOX	0.20	6	9
2222	SWAMPBOX	0.10	6	6
2223	SWAMPBOX	0.20	8	6
2224	SWAMPBOX	0.40	10	14
2225	SCRIBBLY GUM	0.70	18	15
2226	BLUEGUM	0.70	18	25
2227	GUM	1.40	30	20
2228	GUM	0.90	20	15
2229	GUM	0.65	20	15
2230	MELALEUCA	0.20	6	6
2231	MELALEUCA	0.15	4	6
2232	MELALEUCA	0.20	8	6
2233	GUM	0.20	5	8
2234	GUM	0.20	5	8
2235	MELALEUCA	0.20	8	6
2236	MELALEUCA	0.20	8	6
2237	MELALEUCA	0.10	4	4
2238	MELALEUCA	0.30	8	6
2239	MELALEUCA	0.20	6	6
2240	SWAMPBOX	0.15	4	6
2241	CORYMBIA	0.20	4	6
2242	MELALEUCA	0.20	6	6
2243	MELALEUCA	0.30	8	6
2244	MELALEUCA	0.05	2	5
2245	MELALEUCA	0.20	6	6
2246	SWAMPBOX	0.20	6	8
2247	GUM	0.55	20	18
2248	SWAMPBOX	0.05	2	3
2249	SWAMPBOX	0.20	6	5
2250	MELALEUCA	0.15	5	8
2251	SWAMPBOX	0.10	2	4
2252	GUM	0.55	25	20
2253	GUM	0.50	20	18
2254	SWAMPBOX	0.15	5	4
2255	MELALEUCA	0.20	6	8
2256	MELALEUCA	0.20	6	5
2257	MELALEUCA	0.50	18	16
2258	MELALEUCA	0.10	2	4
2259	MELALEUCA	0.30	10	8

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	JM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

0 # # # #

SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE #####

CLIENT URBEX

RPS Australia Asia Pacific
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W rpsgroup.com

A TETRA TECH COMPANY

PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 19 OF 20 AU213011113 3 D

Tree Number	Species	Dia	Spread	Height
2300	BRUSHBOX	0.10	5.0	7.0
2301	MORETON BAY ASH	0.10	3.0	7.0
2302	BRUSHBOX	0.16	8.0	12.0
2303	BRUSHBOX	0.11	8.0	12.0
2304	ROUGH BARK APE	0.31	8.0	20.0
2305	ROUGH BARK APE	0.42	8.0	20.0
2306	PROP EUC	0.37	9.0	22.0
2307	SWAMP BOX	0.15	4.0	14.0
2308	SWAMP BOX	0.13	4.0	12.0
2309	SWAMP BOX	0.05	3.0	7.0
2310	SWAMP BOX	0.09	4.0	8.0
2311	SWAMP BOX	0.07	4.0	8.0
2312	SWAMP BOX	0.05	3.0	5.0
2313	SWAMP BOX	0.15	5.0	12.0
2314	SWAMP BOX	0.17	5.0	12.0
2315	SWAMP BOX	0.13	6.0	9.0
2316	SWAMP BOX	0.07	3.0	7.0
2317	SWAMP BOX	0.12	3.0	7.0
2318	SWAMP BOX	0.07	2.0	4.0
2319	SWAMP BOX	0.05	2.0	5.0
2320	SWAMP BOX	0.06	3.0	7.0
2321	SWAMP BOX	0.05	2.0	5.0
2322	SWAMP BOX	0.05	2.0	6.0
2323	SWAMP BOX	0.05	2.0	6.0
2324	PAPERBARK	0.05	4.0	5.0
2325	SWAMP BOX	0.06	3.0	6.0
2326	PAPERBARK	0.09	2.0	5.0
2327	SWAMP BOX	0.10	3.5	9.0
2328	PAPERBARK	0.12	4.0	8.0
2329	SWAMP BOX	0.07	3.0	7.0
2330	PAPERBARK	0.22	10.0	12.0
2331	SWAMP BOX	0.11	4.0	7.0
2332	SWAMP BOX	0.05	2.0	5.0
2333	SWAMP BOX	0.05	2.0	4.0
2334	SWAMP BOX	0.05	2.0	4.0
2335	PAPER BARK	0.06	2.0	4.0
2336	PAPER BARK	0.05	2.0	4.0
2337	PAPER BARK	0.05	2.0	4.0
2338	SWAMP BOX	0.06	2.0	7.0
2339	SWAMP BOX	0.05	2.0	5.0
2340	SWAMP BOX	0.07	2.5	6.5
2341	SWAMP BOX	0.10	3.0	7.0
2342	SWAMP BOX	0.07	3.0	7.0
2343	SWAMP BOX	0.10	4.0	7.0
2344	SWAMP BOX	0.10	4.0	7.0
2345	SWAMP BOX	0.10	3.0	6.0
2346	SWAMP BOX	0.10	2.0	6.0
2347	PAPER BARK	0.05	1.5	7.0
2348	PAPER BARK	0.10	5.0	10.0
2349	PAPER BARK	0.10	3.0	12.0
2350	PAPER BARK	0.10	3.0	10.0
2351	PAPER BARK	0.05	1.0	10.0
2352	SWAMP BOX	0.05	2.0	6.0
2353	PAPER BARK	0.13	4.0	12.0
2354	PAPER BARK	0.17	6.0	12.0
2355	PAPER BARK	0.10	4.0	12.0
2356	PAPER BARK	0.11	4.0	12.0
2357	PAPER BARK	0.06	2.0	9.0
2358	PAPER BARK	0.16	6.0	12.0
2359	PAPER BARK	0.10	2.5	8.0
2360	SWAMP BOX	0.24	5.0	10.0
2361	SWAMP BOX	0.14	3.0	8.0
2362	PAPER BARK	0.07	2.0	8.0
2363	PAPER BARK	0.05	1.5	4.0
2364	PAPER BARK	0.18	6.0	8.0
2365	PAPER BARK	0.30	8.0	16.0
2366	BRUSH BOX	0.10	5.0	9.0
2367	PAPERBARK	0.10	3.0	6.0
2368	IRON BARK	0.10	4.0	12.0
2369	PAPER BARK	0.06	1.0	6.0
2370	SWAMP BOX	0.10	4.0	8.0
2371	SWAMP BOX	0.10	3.0	7.0
2372	PAPER BARK	0.20	6.0	12.0
2373	PAPER BARK	0.20	4.0	12.0
2374	PAPER BARK	0.08	2.0	8.0
2375	PAPER BARK	0.20	0.0	0.0
2376	PAPER BARK	0.08	0.0	0.0
2377	PAPER BARK	0.10	4.0	12.0
2378	PAPER BARK	0.30	6.0	12.0
2379	SWAMP BOX	0.05	2.0	5.0
2380	SWAMP BOX	0.25	10.0	18.0
2381	SWAMP BOX	0.08	2.0	10.0
2382	PAPER BARK	0.08	4.0	6.0
2383	PAPER BARK	0.10	6.0	12.0
2384	BRUSH BOX	0.50	12.0	18.0
2385	SWAMP BOX	0.08	4.0	12.0
2386	PAPER BARK	0.10	4.0	12.0
2387	PAPER BARK	0.10	4.0	12.0
2388	SWAMP BOX	0.05	2.0	6.0
2389	PAPER BARK	0.10	4.0	12.0
2390	PAPER BARK	0.08	4.0	12.0
2391	SWAMPBOX	0.10	2.0	6.0
2392	PAPER BARK	0.05	1.0	4.0
2393	PAPER BARK	0.10	6.0	12.0
2394	GUM	0.08	3.0	10.0
2395	PAPER BARK	0.08	3.0	10.0
2396	PAPER BARK	0.08	3.0	10.0
2397	PAPER BARK	0.10	5.0	12.0
2398	PAPERBARK	0.09	3.0	10.0
2399	PAPERBARK	0.12	5.0	15.0
2400	SWAMP BOX	0.05	2.0	4.0
2401	PAPERBARK	0.06	2.0	10.0
2402	PAPERBARK	0.08	3.0	10.0
2403	PAPERBARK	0.12	5.0	12.0
2404	PAPERBARK	0.10	4.0	12.0
2405	PAPERBARK	0.15	4.0	12.0
2406	PAPERBARK	0.03	1.0	4.0
2407	SWAMP BOX	0.08	2.0	6.0
2408	SWAMP BOX	0.06	2.0	4.0
2409	PAPERBARK	0.10	3.0	12.0
2410	PAPERBARK	0.15	3.0	15.0
2411	PAPERBARK	0.10	2.0	6.0
2412	PAPERBARK	0.10	2.0	10.0
2413	SWAMP BOX	0.05	2.0	5.0
2414	SWAMP BOX	0.05	2.0	5.0
2415	PAPERBARK	0.05	2.0	5.0
2416	SWAMP BOX	0.05	2.0	5.0
2417	SWAMP BOX	0.05	2.0	6.0
2418	PAPERBARK	0.06	2.0	5.0
2419	PAPERBARK	0.10	3.0	12.0
2420	SWAMP BOX	0.10	3.0	12.0
2421	SWAMP BOX	0.08	2.0	10.0
2422	SWAMP BOX	0.05	1.0	5.0
2423	BLOODWOOD	0.12	4.0	15.0
2424	SWAMP BOX	0.07	3.0	6.0
2425	SWAMP BOX	0.05	2.0	5.0
2426	SWAMP BOX	0.04	2.0	4.0
2427	SWAMP BOX	0.07	3.0	10.0
2428	SWAMP BOX	0.06	3.0	10.0
2429	SWAMP BOX	0.06	2.0	10.0
2430	SWAMP BOX	0.05	2.0	6.0
2431	SWAMP BOX	0.06	2.0	8.0
2432	SWAMP BOX	0.04	1.0	5.0
2433	SWAMP BOX	0.05	2.0	6.0
2434	SWAMP BOX	0.07	2.0	10.0
2435	SWAMP BOX	0.08	4.0	12.0
2436	SWAMP BOX	0.08	4.0	12.0
2437	SWAMP BOX	0.10	3.0	12.0
2438	SWAMP BOX	0.05	1.0	4.0
2439	PAPERBARK	0.04	1.0	5.0
2440	SWAMP BOX	0.07	2.0	8.0
2441	SWAMP BOX	0.10	4.0	12.0
2442	PAPERBARK	0.12	4.0	12.0
2443	SWAMP BOX	0.12	5.0	12.0
2444	SWAMP BOX	0.06	2.0	6.0
2446	PAPERBARK	0.30	6.0	10.0
2447	PAPER BARK	0.50	6.0	20.0
2448	PAPER BARK	0.12	4.0	15.0
2449	PAPER BARK	0.10	4.0	6.0
2450	SWAMP BOX	0.07	3.0	5.0
2451	SWAMP BOX	0.08	3.0	8.0
2452	SWAMP BOX	0.04	1.0	4.0
2453	PAPER BARK	0.30	3.0	12.0
2454	PAPER BARK	0.20	3.0	10.0
2455	SWAMP BOX	0.05	1.0	4.0
2456	PAPER BARK	0.15	3.0	15.0
2457	SWAMP BOX	0.08	3.0	8.0
2458	SWAMP BOX	0.08	3.0	8.0
2459	PAPER BARK	0.08	2.0	5.0
2460	BLOODWOOD	0.25	5.0	20.0
2461	PAPERBARK	0.08	3.0	12.0
2462	PAPERBARK	0.05	2.0	6.0
2463	PAPERBARK	0.15	3.0	15.0
2464	PAPERBARK	0.20	4.0	8.0
2465	PAPERBARK	0.12	4.0	15.0
2466	SWAMPBOX	0.15	4.0	15.0
2467	PAPERBARK	0.08	3.0	10.0
2468	PAPERBARK	0.50	8.0	20.0
2469	PAPERBARK	0.03	1.0	5.0
2470	PAPERBARK	0.04	2.0	5.0
2471	PAPERBARK	0.08	3.0	8.0
2472	PAPERBARK	0.10	3.0	15.0
2474	PAPER BARK	0.08	4.0	10.0
2475	PAPER BARK	0.08	2.0	10.0
2476	PAPER BARK	0.08	2.0	8.0
2477	SWAMP BOX	0.15	2.0	5.0
2479	PAPER BARK	0.05	1.0	6.0
2480	PAPER BARK	0.08	2.0	12.0
2481	PAPERBARK	0.06	2.0	12.0
2482	PAPERBARK	0.08	2.0	8.0
2483	PAPERBARK	0.04	1.0	4.0
2484	PAPERBARK	0.05	2.0	8.0
2485	PAPERBARK	0.15	5.0	15.0
2487	SWAMPBOX	0.08	3.0	10.0
2488	PAPERBARK	0.08	3.0	10.0
2489	PAPER BARK	0.20	4.0	15.0
2490	PAPER BARK	0.10	1.0	6.0
2491	PAPER BARK	0.25	3.0	12.0
2492	PAPER BARK	0.10	3.0	8.0
2493	PAPER BARK	0.10	4.0	10.0
2494	PAPER BARK	0.10	2.0	8.0
2495	PAPER BARK	0.15	3.0	12.0
2496	SWAMP BOX	0.04	1.0	4.0
2497	SWAMP BOX	0.04	1.0	4.0
2498	SWAMP BOX	0.05	1.0	4.0
2499	SWAMP BOX	0.06	1.0	5.0
2501	SWAMP BOX	0.15	3.0	15.0
2502	SWAMP BOX	0.06	2.0	5.0
2504	SWAMP BOX	0.08	3.0	12.0
2505	SWAMP BOX	0.08	3.0	10.0
2506	SWAMP BOX	0.08	3.0	10.0
2507	SWAMP BOX	0.05	1.0	4.0
2509	SWAMP BOX	0.05	2.0	5.0
2510	PAPER BARK	0.30	8.0	12.0
2511	PAPERBARK	0.20	5.0	12.0
2512	BLOODWOOD	0.15	4.0	12.0
2513	SWAMPBOX	0.07	3.0	12.0
2514	BLOODWOOD	0.12	4.0	15.0
2515	SWAMPBOX	0.08	2.0	6.0
2516	SWAMPBOX	0.12	4.0	12.0
2517	PAPERBARK	0.15	5.0	15.0
2518	PAPERBARK	0.20	6.0	18.0
2519	PAPERBARK	0.40	6.0	20.0
2520	SWAMP BOX	0.08	2.0	8.0
2521	SWAMP BOX	0.06	2.0	8.0
2522	SWAMP BOX	0.08	2.0	6.0
2523	PAPERBARK	0.15	4.0	15.0
2524	SWAMP BOX	0.05	1.0	4.0
2525	SWAMP BOX	0.15	4.0	15.0
2526	SWAMP BOX	0.10	3.0	10.0
2527	PAPERBARK	0.12	3.0	10.0
2528	PAPERBARK	0.20	6.0	20.0
2529	SWAMPBOX	0.20	6.0	20.0
2530	SWAMPBOX	0.04	1.0	4.0
2531	PAPERBARK	0.04	1.0	4.0
2532	SWAMPBOX	0.04	3.0	12.0
2533	BLOODWOOD	0.07	3.0	10.0
2534	SWAMPBOX	0.05	2.0	6.0
2535	SWAMPBOX	0.30	6.0	20.0
2536	PAPERBARK	0.08	3.0	8.0
2537	SWAMPBOX	0.04	1.0	4.0
2538	PAPERBARK	0.10	2.0	10.0
2539	PAPERBARK	0.07	2.0	6.0
2540	SWAMP BOX	0.30	7.0	20.0
2541	PAPERBARK	0.15	4.0	15.0
2542	PAPERBARK	0.12	4.0	15.0
2543	SWAMP BOX	0.15	3.0	15.0
2544	PAPER BARK	0.15	3.0	15.0
2545	SWAMP BOX	0.06	2.0	6.0
2546	SWAMP BOX	0.06	3.0	12.0
2547	PAPER BARK	0.15	3.0	15.0
2548	BLOODWOOD	0.15	3.0	15.0
2549	PAPERBARK	0.15	4.0	12.0
2550	PAPERBARK	0.20	6.0	15.0
2551	GUM	0.25	6.0	15.0
2552	GUM	0.30	8.0	20.0
2553	IRONBARK	0.10	3.0	15.0
2554	SWAMPBOX	0.15	3.0	10.0
2555	SWAMPBOX	0.08	3.0	5.0
2556	SWAMPBOX	0.40	8.0	20.0
2557	SWAMPBOX	0.12	4.0	15.0
2558	SWAMPBOX	0.10	4.0	12.0
2559	SWAMPBOX	0.12	4.0	15.0
2560	SWAMPBOX	0.40	8.0	20.0
2561	PAPERBARK	0.15	5.0	15.0
2562	PAPERBARK	0.25	8.0	15.0
2563	PAPERBARK	0.08	2.0	8.0
2564	SWAMPBOX	0.17	4.0	12.0
2565	PAPERBARK	0.08	3.0	5.0
2566	PAPERBARK	0.05	2.0	6.0
2567	PAPERBARK	0.07	3.0	6.0
2568	PAPERBARK	0.17	5.0	12.0
2569	SWAMPBOX	0.05	1.0	4.0
2570	SWAMPBOX	0.08	3.0	12.0
2571	SWAMPBOX	0.40	8.0	20.0
2572	PAPERBARK	0.08	3.0	8.0
2573	PAPERBARK	0.15	4.0	12.0
2574	PAPERBARK	0.15	4.0	12.0
2575	SWAMPBOX	0.10	3.0	10.0
2576	SWAMPBOX	0.08	2.0	8.0
2577	SWAMPBOX	0.15	4.0	15.0
2578	SWAMPBOX	0.30	4.0	7.0
2579	PAPERBARK	0.07	2.0	6.0
2580	SWAMPBOX	0.07	2.0	5.0
2581	PAPERBARK	0.06	2.0	5.0
2582	SWAMPBOX	0.04	1.0	4.0
2583	SWAMPBOX	0.08	2.0	5.0
2584	SWAMPBOX	0.10	3.0	10.0
2585	SWAMP BOX	0.30	8.0	20.0
2586	SWAMP BOX	0.20	8.0	20.0
2587	PAPERBARK	0.10	4.0	5.0
2588	PAPERBARK	0.10	3.0	6.0
2589	BLOODWOOD	0.15	6.0	15.0
2590	SWAMPBOX	0.30	10.0	20.0
2591	GUM	0.20	6.0	15.0
2592	BLOODWOOD	0.30	8.0	20.0
2593	GUM	0.20	6.0	15.0
2594	SWAMPBOX	0.08	4.0	8.0
2595	SWAMPBOX	0.08	3.0	6.0
2596	SWAMPBOX	0.40	10.0	20.0
2597	SWAMPBOX	0.35	8.0	15.0
2598	SWAMPBOX	0.06	3.0	4.0
2599	PAPERBARK	0.10	2.0	5.0
2600	SWAMPBOX	0.07	3.0	5.0
2601	SWAMPBOX	0.10	3.0	6.0
2602	SWAMPBOX	0.05	2.0	5.0
2603	SWAMPBOX	0.04	1.0	4.0
2604	SWAMPBOX	0.04	1.0	5.0
2605	SWAMPBOX	0.04	1.0	4.0
2606	SWAMPBOX	0.05	2.0	5.0
2607	PAPERBARK	0.10	3.0	12.0
2608	SWAMP BOX	0.10	4.0	12.0
2609	PAPERBARK	0.15	4.0	15.0
2610	PAPERBARK	0.05	1.0	4.0
2611	PAPERBARK	0.05	2.0	5.0
2612	SWAMPBOX	0.05	2.0	6.0
2613	PAPERBARK	0.10	4.0	10.0
2614	SWAMPBOX	0.06	2.0	5.0
2615	SWAMPBOX	0.05	2.0	6.0
2616	PAPERBARK	0.06	3.0	8.0
2618	SWAMPBOX	0.04	2.0	5.0
2619	SWAMPBOX	0.05	2.0	5.0
2620	SWAMPBOX	0.04	2.0	5.0
2621	SWAMPBOX	0.07	3.0	6.0
2623	PAPERBARK	0.12	3.0	12.0
2624	SWAMP BOX	0.05	2.0	8.0
2625	SWAMP BOX	0.06	1.0	4.0
2626	SWAMP BOX	0.08	2.0	8.0
2627	SWAMP BOX	0.05	2.0	6.0
2628	SWAMP BOX	0.08	3.0	8.0
2629	SWAMP BOX	0.05	1.0	4.0
2630	SWAMP BOX	0.06	1.0	4.0
2631	SWAMP BOX	0.06	1.0	4.0
2632	SWAMP BOX	0.07	1.0	5.0
2633	SWAMPBOX	0.08	2.0	5.0
2634	STRINGYBARK	0.50	25.0	20.0
2635	SWAMPBOX	0.06	2.0	5.0
2636	STRINGYBARK	2.00	6.0	15.0
2637	BLOODWOOD	1.30	20.0	30.0
2638	SWAMPBOX	0.10	3.0	12.0
2639	SWAMP BOX	0.10	3.0	6.0
2640	SWAMP BOX	0.15	6.0	15.0
2641	SWAMPBOX	0.15	6.0	15.0
2642	SWAMPBOX	0.05	3.0	5.0
2643	SWAMPBOX	0.20	6.0	15.0
2644	SWAMPBOX	0.05	2.0	5.0
2645	SWAMPBOX	0.05	2.0	4.0
2646	SWAMPBOX	0.05	2.0	4.0
2647	SWAMPBOX	0.10	4.0	8.0
2648	SWAMPBOX	0.35	10.0	20.0
2649	SWAMPBOX	0.08	3.0	5.0
2650	SWAMPBOX	0.25	8.0	20.0
2651	STRINGYBARK	0.35	15.0	20.0
2652	STRINGYBARK	0.20	6.0	20.0
2653	SWAMPBOX	0.15	3.0	8.0
2654	SWAMPBOX	0.07	2.0	6.0
2655	SWAMPBOX	0.25	6.0	12.0
2656	SWAMPBOX	0.20	6.0	15.0
2657	SWAMPBOX	0.15	4.0	12.0
2658	SWAMPBOX	0.10	2.0	8.0
2659	SWAMPBOX	0.12	4.0	8.0
2660	SWAMPBOX	0.15	4.0	12.0
2661	SWAMPBOX	0.10	4.0	8.0
2662	SWAMPBOX	0.06	3.0	6.0
2663	STRINGYBARK	0.35	15.0	20.0
2664	SWAMPBOX	0.20	10.0	20.0
2665	SWAMPBOX	0.04	2.0	4.0
2666	STRINGYBARK	0.50	15.0	20.0
2667	SWAMPBOX	0.50	10.0	20.0
2668	PAPERBAK	0.10	5.0	8.0
2669	SWAMPBOX	0.07	2.0	5.0
2670	PAPERBARK	0.07	3.0	12.0
2671	PAPERBARK	0.08	3.0	6.0
2673	SWAMPBOX	0.07	3.0	6.0
2674	SWAMPBOX	0.15	5.0	15.0
2675	SWAMPBOX	0.20	6.0	15.0
2676	SWAMPBOX	0.25	10.0	20.0
2677	STRINGYBARK	0.15	8.0	15.0
2678	STRINGYBARK	0.30	8.0	20.0
2679	STRINGYBARK	0.15	6.0	15.0
2680	STRINGYBARK	0.30	10.0	20.0
2681	STRINGYBARK	0.15	8.0	15.0
2682	STRINGYBARK	0.10	4.0	10.0
2683	IRONBARK	0.07	2.0	6.0
2684	SWAMPBOX	0.03	1.0	4.0
2685	STRINGYBARK	0.25	10.0	20.0
2686	SWAMPBOX	0.06	2.0	6.0
2687	SWAMPBOX	0.08	3.0	10.0
2688	STRINGYBARK	0.15	4.0	12.0
2689	PAPERBARK	0.06	3.0	8.0
2690	SWAMPBOX	0.18	6.0	15.0
2691	PAPERBARK	0.07	3.0	8.0
2692	PAPERBARK	0.10	5.0	12.0
2693	SWAMPBOX	0.15	5.0	10.0
2694	STRINGYBARK	0.50	20.0	22.0
2695	SWAMPBOX	0.15	4.0	12.0
2696	SWAMPBOX	0.05	2.0	5.0
2697	SWAMPBOX	0.07	2.0	6.0
2698	SWAMPBOX	0.20	8.0	12.0
2699	SWAMPBOX	0.12	4.0	15.0
2700	PAPERBARK	0.06	2.0	5.0
2701	STINGYBARK	0.25	8.0	20.0
2702	SWAMPBOX	0.10	3.0	12.0
2703	PAPERBARK	0.60	3.0	6.0
2704	PAPERBARK	0.30	6.0	15.0
2705	SWAMPBOX	0.07	2.0	8.0
2706	SWAMPBOX	0.15	6.0	15.0
2707	SWAMPBOX	0.12	4.0	12.0
2708	SWAMPBOX	0.05	2.0	6.0
2709	IRONBARK	0.10	4.0	12.0
2710	STRINGYBARK	0.35	8.0	20.0
2711	IRONBARK	0.06	1.0	5.0
2712	SWAMPBOX	0.10	4.0	10.0
2713	STRINGYBARK	0.45	8.0	20.0
2714	STRINGYBARK	0.10	3.0	10.0
2715	STRINGYBARK	0.10	3.0	10.0
2716	STRINGYBARK	0.10	3.0	10.0
2717	STRINGYBARK	0.25	4.0	15.0
2718	SWAMPBOX	0.08	2.0	8.0
2719	STRINGYBARJ	0.08	3.0	10.0
2720	STRINGYBARK	0.15	6.0	15.0
2721	STRINGYBARK	0.80	20.0	20.0
2722	PAPERBARK	0.06	4.0	8.0
2723	SWAMPBOX	0.05	4.0	6.0
2724	STRINGYBARK	0.12	5.0	12.0
2725	SWAMPBOX	0.08	4.0	6.0
2726	SWAMPBOX	0.08	4.0	10.0
2727	SWAMPBOX	0.08	4.0	10.0
2728	SWAMPBOX	0.07	3.0	6.0
2729	SWAMPBOX	0.12	4.0	12.0
2730	SWAMPBOX	0.08	4.0	12.0
2731	SWAMPBOX	0.03	4.0	8.0
2732	SWAMPBOX	0.35	10.0	20.0
2733	STRINGYBARK	0.18	6.0	12.0
2734	STRINGYBARK	0.20	8.0	15.0
2735	STRINGYBARK	0.12	6.0	13.0
2736	SWAMPBOX	0.08	3.0	12.0
2737	SWAMPBOX	0.15	4.0	15.0
2738	STRINGYBARK	0.10	4.0	12.0
2739	STRINGYBARK	0.15	6.0	15.0
2740	PAPERBARK	0.25	6.0	15.0
2741	SWAMPBOX	0.05	1.0	4.0
2742	SWAMPBOX	0.05	1.0	5.0
2743	STRINGYBARK	0.08	3.0	12.0
2744	STRINGYBARK	0.20	8.0	20.0
2745	SWAMPBOX	0.04	2.0	5.0
2746	STRINGYBARK	0.07	4.0	8.0
2747	PAPERBARK	0.08	4.0	12.0
2748	STRINGYBARK	0.06	3.0	8.0
2749	STRINGYBARK	0.12	4.0	12.0
2750	STRINGYBARK	0.05	2.0	5.0
2751	SWAMPBOX	0.04	2.0	5.0
2752	PAPAERBARK	0.05	2.0	6.0
2753	SWAMPBOX	0.18	6.0	15.0
2754	SWAMPBOX	0.05	1.0	4.0
2755	SWAMPBOX	0.07	3.0	6.0
2756	STRINGYBARK	0.30	10.0	20.0
2757	SWAMPBOX	0.05	2.0	5.0
2758	SWAMPBOX	0.04	3.0	5.0
2759	PAPERBARK	0.20	6.0	20.0
2760	SWAMPBOX	0.04	3.0	5.0
2761	SWAMPBOX	0.03	1.0	4.0
2762	STRINGYBARK	0.08	3.0	6.0
2763	PAPERBARK	0.20	6.0	15.0
2764	STRINGYBARK	0.15	5.0	15.0
2765	GUM	0.15	8.0	15.0
2766	SWAMPBOX	0.07	4.0	6.0
2767	STRINGYBARK	0.10	4.0	10.0
2768	PAPERBARK	0.05	3.0	5.0
2769	STRINGYBARK	0.20	8.0	15.0
2770	STRINGYBARK	0.10	4.0	8.0
2771	SWAMPBOX	0.40	2.0	4.0
2772	IRONBARK	0.10	3.0	8.0
2773	PAPERBARK	0.10	4.0	12.0
2774	SWAMPBOX	0.07	4.0	10.0
2775	SWAMPBOX	0.10	6.0	10.0
2776	SWAMPBOX	0.07	6.0	10.0
2777	PAPERBARK	0.30	8.0	15.0
2778	STRINGYBARK	0.20	8.0	20.0
2779	PAPERBARK	0.20	6.0	15.0
2780	SWAMPBOX	0.06	3.0	5.0
2781	STRINGYBARK	0.08	2.0	6.0
2782	STRINGYBARK	0.05	2.0	5.0
2783	SWAMPBOX	0.15	8.0	15.0
2784	SWAMPBOX	0.10	6.0	12.0
2785	PAPERBARK	0.06	3.0	6.0
2786	PAPERBARK	0.10	3.0	12.0
2787	PAPERBARK	0.12	6.0	15.0
2788	PAPERBARK	0.04	2.0	5.0
2789	BLOODWOOD	0.12	6.0	12.0
2790	PAPERBARK	0.25	6.0	15.0
2791	SWAMPBOX	0.06	2.0	5.0
2792	SWAMPBOX	0.04	2.0	5.0
2793	SWAMPBOX	0.06	2.0	6.0
2794	PAPERBARK	0.15	4.0	12.0
2795	PAPERBARK	0.06	3.0	10.0
2796	SWAMPBOX	0.05	3.0	6.0
2797	PAPERBARK	0.06	3.0	10.0
2798	STRINGYBARK	0.30	8.0	15.0
2799	SWAMPBOX	0.10	4.0	12.0
2800	STRINGYBARK	0.08	3.0	10.0
2801	SWAMPBOX	0.20	8.0	15.0
2802	PAPERBARK	0.15	8.0	15.0
2803	BLOODWOOD	0.07	3.0	5.0
2804	PAPERBARK	0.12	6.0	12.0
2805	PAPERBARK	0.10	1.0	4.0
2806	STRINGYBARK	0.15	6.0	15.0
2807	PAPERBARK	0.15	6.0	12.0
2808	PAPERBARK	0.12	6.0	12.0
2809	PAPERBARK	0.15	6.0	12.0
2810	PAPERBARK	0.05	2.0	5.0
2811	STRINGYBARK	0.20	8.0	15.0
2812	PAPERBARK	0.05	3.0	5.0
2813	SWAMPBOX	0.15	4.0	15.0
2814	BLOODWOOD	0.30	8.0	15.0
2815	SWAMPBOX	0.10	6.0	12.0
2816	SWAMPBOX	0.06	3.0	5.0
2817	PAPERBARK	0.30	8.0	15.0
2818	SWAMPBOX	0.07	6.0	8.0
2819	SWAMPBOX	0.15	3.0	12.0
2820	STRINGYBARK	0.08	3.0	8.0
2821	PAPERBARK	0.15	3.0	8.0
2822	STRINGYBARK	0.20	8.0	15.0
2823	SWAMPBOX	0.05	2.0	5.0
2824	SWAMPBOX	0.06	2.0	4.0
2825	SWAMPBOX	0.08	6.0	10.0
2826	SWAMPBOX	0.05	2.0	5.0
2827	SWAMPBOX	0.06	3.0	5.0
2828	STRINGYBARK	0.20	6.0	12.0
2829	SWAMPBOX	0.07	3.0	8.0
2830	PAPERBAR	0.07	3.0	6.0
2831	PAPERBAR	0.08	4.0	5.0
2832	PAPERBARK	0.10	4.0	6.0
2833	SWAMPBOX	0.05	2.0	5.0
2834	SWAMPBOX	0.07	3.0	6.0
2835	STRINGYBARK	0.35	15.0	20.0
2836	STRINGYBARK	0.20	10.0	15.0
2837	SWAMPBOX	0.10	4.0	8.0
2838	IRONBARK	0.40	8.0	20.0
2839	BLOODWOOD	0.10	4.0	6.0
2840	SWAMPBOX	0.10	3.0	8.0
2841	BLOODWOOD	0.20	6.0	15.0
2842	STRINGYBARK	0.08	3.0	8.0
2843	STRINGYBARK	0.40	15.0	22.0
2844	PAPERBARK	0.06	3.0	5.0
2845	STRINGYBARK	0.07	3.0	5.0
2846	STRINGYBARK	0.05	1.0	4.0
2847	STRINGYBARK	0.40	15.0	20.0
2848	SWAMPBOX	0.03	1.0	4.0
2849	STRINGYBARK	0.06	2.0	6.0
2850	PAPERBARK	0.05	2.0	5.0
2851	STRINGYBARK	0.08	2.0	5.0
2852	SWAMPBOX	0.12	6.0	12.0
2853	SWAMPBOX	0.10	6.0	10.0
2854	SWAMPBOX	0.10	6.0	10.0
2855	STRINGYBARK	0.10	4.0	8.0
2855	STRINGYBARK	0.10	4.0	8.0
2856	BLOODWOOD	0.30	15.0	20.0
2857	BLOODWOOD	0.08	3.0	6.0
2858	BLOODWOOD	0.15	3.0	10.0
2859	PAPERBARK	0.10	3.0	5.0
2860	BLOODWOOD	0.08	5.0	15.0
2861	BLOODWOOD	0.30	8.0	15.0
2862	BLOODWOOD	0.30	8.0	15.0
2863	PAPERBARK	0.10	4.0	8.0
2864	STRINGYBARK	0.30	10.0	20.0
2865	BLOODWOOD	0.10	3.0	8.0
2866	BLOODWOOD	0.08	3.0	8.0
2867	PAPERBARK	0.15	6.0	10.0
2868	IRONBARK	0.45	20.0	25.0
2869	STRINGYBARK	0.50	20.0	25.0
2870	BLOODWOOD	0.15	6.0	15.0
2871	BLOODWOOD	0.25	8.0	12.0
2872	BLOODWOOD	0.25	6.0	8.0
2873	BLOODWOOD	0.18	3.0	6.0
2874	BLOODWOOD	0.10	3.0	6.0
2875	SWAMPBOX	0.30	8.0	15.0
2876	SWAMPBOX	0.12	3.0	8.0
2877	IRONBARK	0.40	8.0	15.0
2878	SWAMPBOX	0.20	4.0	12.0
2879	BLOODWOOD	0.40	4.0	6.0
2880	PAPERBARK	0.10	3.0	6.0
2881	BLOODWOOD	0.08	4.0	8.0
2882	STRINGYBARK	0.07	2.0	5.0
2883	STRINGYBARK	0.05	1.0	4.0
2884	PAPERBARK	0.25	6.0	15.0
2885	BLOODWOOD	0.20	6.0	15.0
2886	SWAMPBOX	0.10	6.0	10.0
2887	BLOODWOO	0.25	8.0	12.0
2888	BLOODWOO	0.07	3.0	8.0
2889	SWAMPBOX	0.60	15.0	20.0
2890	STRINGYBARK	0.60	20.0	20.0
2891	IRONBARK	0.25	15.0	20.0
2892	STRINGYBARK	0.60	20.0	20.0
2893	STRINGYBARK	0.90	25.0	30.0
2894	SWAMPBOX	0.15	5.0	12.0
2895	SWAMPBOX	0.08	4.0	8.0
2896	STRINGYBARK	0.12	6.0	15.0
2897	BLOODWOOD	0.30	8.0	20.0
2898	STRINGYBARK	0.15	4.0	15.0
2899	STRINGYBARK	0.10	4.0	15.0
2900	BLOODWOOD	0.45	15.0	25.0
2901	SWAMPBOX	0.15	4.0	12.0
2902	SWAMPBOX	0.10	4.0	12.0
2903	SWAMPBOX	0.25	6.0	15.0
2904	SWAMPBOX	0.10	3.0	8.0
2905	SWAMPBOX	0.04	1.0	5.0
2906	SWAMPBOX	0.08	6.0	12.0
2907	SWAMPBOX	0.08	2.0	6.0
2908	STRINGYBARK	0.40	20.0	25.0
2909	SWAMPBOX	0.20	8.0	15.0
2910	STRINGYBARK	0.50	20.0	25.0
2911	STRINGYBARK	0.35	6.0	15.0
2912	BLOODWOOD	0.40	8.0	20.0
2913	BLOODWOOD	0.40	8.0	20.0
2914	STRINGYBARK	0.18	4.0	15.0
2915	PAPERBARK	0.15	4.0	12.0
2916	PAPERBARK	0.20	3.0	12.0
2917	STRINGYBARK	0.50	20.0	25.0
2918	BLOODWOOD	0.35	15.0	20.0
2919	STRINGYBARK	0.35	15.0	20.0
2920	STRINGYBARK	0.25	10.0	15.0
2921	PAPERBARK	0.25	6.0	12.0
2922	PAPERBARK	0.25	6.0	12.0
2923	STRINGYBARK	0.20	6.0	12.0
2924	STRINGYBARK	0.20	6.0	15.0
2925	STRINGBARK	0.07	3.0	7.0
2926	BLOODWOOD	0.40	15.0	25.0
2927	PAPERBARK	0.35	10.0	15.0
2930	SCIB GUM	0.30	8.0	12.0
2931	BLOODWOOD	0.15	4.0	8.0
2932	BLOODWOOD	0.40	10.0	20.0
2933	PAPERBARK	0.50	20.0	15.0
2934	GUM	0.40	15.0	15.0
2935	BLOODWOOD	0.35	20.0	20.0
2936	PAPERBARK	0.25	6.0	12.0
2937	STRINGYBARK	0.35	10.0	20.0
2938	PAPERBARK	0.08	4.0	8.0
2939	GUM	0.40	15.0	15.0
2940	PAPERBARK	0.20	6.0	12.0
2941	GUM	0.15	6.0	12.0
2942	BLOODWOOD	0.12	4.0	8.0
2943	PAPERBARK	0.40	8.0	12.0
2944	PAPERBARK	0.20	6.0	8.0
2945	GUM	0.08	3.0	5.0
2946	STRINGYBARK	0.80	25.0	25.0
2947	GUM	0.15	4.0	8.0
2948	BLOODWOO	0.35	10.0	15.0
2949	PAPERBARK	0.15	4.0	8.0
2950	PAPERBARK	0.40	4.0	8.0
2951	PAPERBARK	0.20	6.0	12.0
2952	BLOODWOOD	0.35	8.0	20.0
2953	PAPERBARK	0.25	6.0	10.0
2954	PAPERBARK	0.15	6.0	8.0
2955	STRINGYBARK	0.50	8.0	20.0
2956	PAPERBARK	0.30	8.0	12.0
2957	GUM	0.10	1.0	4.0
2958	PAPERBARK	0.15	3.0	8.0
2959	PAPERBARK	0.20	6.0	12.0
2960	GUM	0.12	6.0	12.0
2961	GUM	0.40	8.0	15.0
2962	STRINGYBARK	0.60	16.0	25.0
2963	SCRIBB GUM	0.60	15.0	20.0
2964	PAPERBARK	0.15	6.0	10.0
2965	GUM	0.30	15.0	15.0
2966	GUM	0.50	20.0	20.0
2967	BLOODWOOD	0.10	2.0	6.0
2968	GUM	0.60	20.0	20.0
2969	GUM	0.80	20.0	20.0
2970	PAPERBARK	0.40	4.0	8.0
2971	PAPERBARK	0.20	4.0	12.0
2972	GUM	0.20	6.0	15.0
2973	PAPERBARK	0.30	6.0	10.0
2974	GUM	0.25	8.0	12.0
2975	PAPERBARK	0.30	10.0	15.0
2976	GUM	0.60	15.0	20.0
2977	GUM	0.30	10.0	20.0
2978	PAPERBARK	0.20	6.0	10.0
2979	PAPERBARK	0.40	8.0	15.0
2980	PAPERBARK	0.40	6.0	10.0
2981	STRINGYBARK	0.40	20.0	20.0
2982	GUM	0.50	20.0	20.0
2983	PAPERBARK	0.35	8.0	12.0
2984	PAPERBARK	0.40	12.0	15.0
2985	STRINGYBARK	0.50	20.0	20.0
2986	PAPERBARK	0.12	6.0	10.0
2987	PAPERBARK	0.40	10.0	15.0
2988	GUM	0.60	20.0	20.0
2989	GUM	0.60	20.0	20.0
2990	PAPERBARK	0.25	10.0	15.0
2991	GUM	0.30	12.0	15.0
2992	PAPERBARK	0.30	6.0	8.0
2993	PAPERBARK	0.15	6.0	6.0
2994	PAPERBARK	0.50	10.0	15.0
2995	GUM	0.70	20.0	20.0
2996	GUM	0.30	8.0	12.0
2997	GUM	0.40	20.0	20.0
2998	GUM	0.40	15.0	20.0
2999	PAPERBARK	0.18	6.0	8.0
3000	PAPERBARK	0.15	8.0	15.0
3001	PAPERBARK	0.35	8.0	15.0
3002	PAPERBARK	0.35	6.0	12.0
3003	PAPERBARK	0.20	8.0	15.0
3004	PAPERBARK	0.20	6.0	12.0
3005	PAPERBARK	0.10	4.0	8.0
3006	PAPERBARK	0.15	6.0	12.0
3007	PAPERBARK	0.20	8.0	12.0
3008	GUM	0.35	10.0	18.0
3009	PAPERBARK	0.15	6.0	10.0
3010	PAPERBARK	0.25	6.0	8.0
3011	GUM	0.50	15.0	20.0
4000	GUM	0.90	30.0	25.0
4001	GUM	0.40	20.0	20.0
4002	BLOODWOOD	0.25	10.0	15.0
4007	BLOODWOOD	0.12	8.0	12.0
4008	BLOODWOOD	0.10	8.0	12.0
4015	SWAMPBOX	0.08	2.0	8.0
4016	GUM	0.90	30.0	25.0
4023	STRINGYBARK	0.15	6.0	12.0
4024	STRINGYBARK	0.25	10.0	15.0
4028	BLOODWOOD	0.10	2.0	7.0
4029	BLOODWOOD	0.30	15.0	20.0
4030	PAPERBARK	0.25	6.0	8.0
4031	BLOODWOOD	0.25	10.0	15.0
4032	STRINGYBARK	0.10	6.0	8.0
4033	BLOODWOOD	0.15	6.0	12.0
4039	BLOODWOOD	0.15	3.0	6.0
4040	BLOODWOOD	0.05	2.0	5.0
4043	BLOODWOOD	0.07	2.0	6.0

Amd	Description	Date	Surveyor	Locator	Drafter	Manager
A	First Issue	28/08/23	TW	SMS	TW	MJI
B	Added Tagged Trees	06/10/2023	JMR		JMR	MJI
C	Additional Trees added - Ecologist identified Trees	20/12/2023	LJM & MJI		MJI	MJI
D	Additional Trees added - Ecologist identified Trees	25/03/2024	MS		MJI	MJI

Hz Datum: Plane/ground
Hz Origin: PM79006
Vrt Datum: AHD
Vrt Origin: PM79006
Origin RL: 67.474m

Locality: Thornlands
Local Authority: Redland City
Lat Long: S27°34'44" E153°15'34"
DWG: AU011113-3D DTM Springacre East
12D: AU011113 Detail Survey Overall

0 # # # #
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1
SCALE #####

CLIENT URBEX

RPS Australia Asia Pacific
Level 4 HQ South
520 Wickham St
Fortitude Valley
QLD 4006
PO Box 1559
Fortitude Valley
QLD 4006
T +61 7 3539 9500
W rpsgroup.com

A TETRA TECH COMPANY

PROJECT SOUTHERN THORNLANDS - SPRINGACRE EAST

DETAIL and CONTOUR SURVEY
Over Lots 12-14 & 16 on RP53653 and Lot 2 on RP128089

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SHEET 20 OF 20 | AU213011113 | 3 | D

Hand held locations				Surveyed Locations GDA2020		Surveyed Locations MGA2020 z56		Surveyed Locations Site						
_latitude	_longitude	date	tree_id	Latitude	Longitude	Easting	Northing	Easting	Northing	species_name	common_name	dbh	tpz_	comment
-27.5833183	153.259136	2023-12-09	1	-27.5833	153.2591	525,573.6	6,948,929.0	25,583.1	147,728.0			0	0	
-27.5832925	153.259136	2023-12-09	2	-27.5833	153.2591	525,572.8	6,948,931.2	25,582.3	147,730.2			0	0	
-27.5832356	153.259175	2023-12-09	3	-27.5832	153.2592	525,579.9	6,948,940.0	25,589.4	147,739.1			0	0	
-27.583205	153.259208	2023-12-09	4	-27.5832	153.2592	525,583.9	6,948,941.3	25,593.4	147,740.3			0	0	
-27.5832139	153.259293	2023-12-09	5	-27.5832	153.2593	525,591.3	6,948,939.7	25,600.8	147,738.8			0	0	
-27.5831963	153.259333	2023-12-09	6	-27.5832	153.2593	525,596.5	6,948,941.2	25,606.0	147,740.2			0	0	
			6A	-27.5832	153.2594	525,604.4	6,948,941.8	25,613.9	147,740.8					
-27.5831227	153.259407	2023-12-09	7	-27.5831	153.2594	525,605.8	6,948,949.3	25,615.3	147,748.4			0	0	126 lopostemon and Mel quin
-27.5831375	153.259485	2023-12-09	8	-27.5832	153.2595	525,611.6	6,948,945.9	25,621.1	147,745.0		polygon with 126	0	0	ths area
-27.5830977	153.25947	2023-12-09	9	-27.5831	153.2595	525,613.0	6,948,952.1	25,622.5	147,751.2		mixed paperbark	0	0	All regrowth
-27.5831265	153.259573	2023-12-09	10	-27.5831	153.2596	525,620.2	6,948,947.5	25,629.7	147,746.5		and swampbox	0	0	In amongst Pinus
-27.5831866	153.259688	2023-12-09	11	-27.5832	153.2597	525,629.7	6,948,942.0	25,639.2	147,741.1		regrowth	0	0	Between 4 m and 12 m in
-27.5833303	153.259772	2023-12-09	12	-27.5833	153.2598	525,637.1	6,948,927.0	25,646.7	147,726.1			0	0	height
-27.5833778	153.259674	2023-12-09	13	-27.5834	153.2597	525,628.3	6,948,920.7	25,637.8	147,719.7			0	0	Up to 30cm plus dbh
-27.5834013	153.259587	2023-12-09	14	-27.5833	153.2596	525,622.8	6,948,926.0	25,632.3	147,725.0			0	0	
-27.5833381	153.259533	2023-12-09	15	-27.5833	153.2596	525,619.1	6,948,929.1	25,628.5	147,728.2			0	0	
-27.5833558	153.259497	2023-12-09	16	-27.5834	153.2595	525,612.8	6,948,923.9	25,622.3	147,723.0			0	0	
-27.5834077	153.259424	2023-12-09	17	-27.5834	153.2594	525,604.6	6,948,918.3	25,614.1	147,717.4			0	0	
-27.5834896	153.259362	2023-12-09	18	-27.5834	153.2594	525,597.5	6,948,915.0	25,607.0	147,714.1			0	0	
-27.5834628	153.25926	2023-12-09	19	-27.5834	153.2593	525,590.9	6,948,919.5	25,600.4	147,718.5			0	0	
			20	-27.5833	153.2592	525,586.2	6,948,927.3	25,595.7	147,726.3					
-27.5793755	153.257726	2023-12-06	202	-27.5794	153.2578	525,440.3	6,949,362.7	25,449.7	148,161.9	Eucalyptus racemosa				Nesting mopke owls Large hollows
-27.5793152	153.256832	2023-12-06	209	-27.5793	153.2569	525,355.7	6,949,377.3	25,365.1	148,176.6	Eucalyptus tindaliae		48	576	
-27.5794583	153.258262	2023-12-06	255	-27.5795	153.2583	525,490.2	6,949,353.8	25,499.6	148,153.1	Lophostemon suaveolens (swampbox)		27.5	330	
-27.5794383	153.258193	2023-12-06	257	-27.5794	153.2582	525,482.6	6,949,360.4	25,492.1	148,159.6	Eucalyptus tereticornis		60	720	
-27.5796034	153.258922	2023-12-07	286	-27.5796	153.2590	525,558.4	6,949,344.4	25,567.9	148,143.6	Corymbia intermedia		30	360	
-27.5795704	153.258929	2023-12-07	287	-27.5795	153.2589	525,556.3	6,949,346.9	25,565.8	148,146.1	Corymbia intermedia		30	360	
-27.5796142	153.258923	2023-12-07	288	-27.5795	153.2589	525,558.1	6,949,350.0	25,567.6	148,149.2	Acacia disparrima	Wattle			
-27.5790397	153.25902	2023-12-07	318	-27.5790	153.2591	525,568.6	6,949,404.3	25,578.1	148,203.5	Eucalyptus tereticornis		52	624	
-27.5791504	153.258163	2023-12-06	346	-27.5791	153.2582	525,482.6	6,949,391.7	25,492.1	148,191.0	Lophostemon suaveolens (swampbox)		10	110	
-27.5788909	153.25789	2023-12-06	352	-27.5789	153.2582	525,484.2	6,949,417.0	25,493.6	148,216.2	Angophora leiocarpa		53	636	
-27.5786969	153.258324	2023-12-06	361	-27.5787	153.2583	525,497.1	6,949,440.8	25,506.6	148,240.1	Acacia disparrima				
-27.5783453	153.259154	2023-12-07	400	-27.5783	153.2592	525,583.9	6,949,480.1	25,593.4	148,279.4	Corymbia intermedia		48	576	
-27.5783185	153.2592	2023-12-07	401	-27.5783	153.2592	525,587.4	6,949,483.5	25,596.8	148,282.8	Eucalyptus racemosa		42	504	
-27.5783122	153.259234	2023-12-07	402	-27.5783	153.2593	525,589.3	6,949,483.3	25,598.8	148,282.6	Eucalyptus racemosa		56	672	Hollows
-27.5782285	153.259278	2023-12-07	403	-27.5782	153.2593	525,591.3	6,949,493.7	25,600.8	148,292.9	Eucalyptus seeana		42	504	
-27.5782174	153.259342	2023-12-07	404	-27.5782	153.2593	525,596.3	6,949,493.3	25,605.7	148,292.6	Eucalyptus racemosa		74	888	Hollow
-27.5784069	153.259324	2023-12-07	405	-27.5784	153.2594	525,598.8	6,949,475.3	25,608.3	148,274.6	Eucalyptus racemosa		24	531	
-27.578511	153.2593	2023-12-07	406	-27.5785	153.2593	525,596.5	6,949,465.8	25,606.0	148,265.1	Eucalyptus racemosa		60	720	Hollows
-27.578588	153.259313	2023-12-07	407	-27.5786	153.2594	525,599.0	6,949,454.9	25,608.4	148,254.2	Eucalyptus tereticornis		60	720	Hollow
-27.5785153	153.259421	2023-12-07	408	-27.5785	153.2595	525,608.6	6,949,461.2	25,618.1	148,260.5	Eucalyptus tereticornis		50	617	
-27.5782279	153.259546	2023-12-07	409	-27.5782	153.2596	525,621.5	6,949,492.5	25,631.0	148,291.8	Eucalyptus tereticornis		56	672	
-27.5782316	153.259626	2023-12-07	410	-27.5782	153.2597	525,628.2	6,949,491.3	25,637.7	148,290.6	Eucalyptus tereticornis		57	684	
-27.5782487	153.259652	2023-12-07	411	-27.5782	153.2597	525,629.9	6,949,490.8	25,639.4	148,290.0	Eucalyptus tereticornis		63	756	Hollows
-27.5783128	153.25976	2023-12-07	412	-27.5783	153.2598	525,640.8	6,949,485.1	25,650.3	148,284.4	Melaleuca quinquenervia		58	696	
-27.578267	153.259773	2023-12-07	413	-27.5783	153.2598	525,647.0	6,949,486.7	25,656.5	148,285.9	Eucalyptus seeana		32	384	

-27.5782808	153.259885	2023-12-07	414	-27.5783	153.2599	525,656.8	6,949,484.7	25,666.3	148,284.0	Eucalyptus racemosa	30	360	
-27.5783309	153.259839	2023-12-07	415	-27.5783	153.2599	525,650.1	6,949,479.9	25,659.6	148,279.2	Eucalyptus racemosa	40	540	
-27.5784292	153.260005	2023-12-07	416	-27.5784	153.2600	525,661.4	6,949,471.4	25,670.9	148,270.7	Eucalyptus racemosa	80	960	Hollows
-27.5784676	153.259875	2023-12-07	417	-27.5784	153.2600	525,657.6	6,949,468.7	25,667.1	148,268.0	Angophora woodsiana	38	456	
-27.5786942	153.259459	2023-12-07	432	-27.5787	153.2595	525,612.5	6,949,440.3	25,622.0	148,239.5	Lophostemon confertus (brushbox)	15	180	
-27.5787595	153.259381	2023-12-07	434	-27.5787	153.2594	525,602.8	6,949,434.0	25,612.2	148,233.2	Corymbia intermedia	0	0	
-27.5788818	153.259236	2023-12-07	438	-27.5788	153.2592	525,587.0	6,949,425.6	25,596.5	148,224.8	Corymbia intermedia	20	240	
-27.578858	153.259252	2023-12-07	439	-27.5789	153.2592	525,583.9	6,949,419.8	25,593.4	148,219.0	Corymbia intermedia	34	408	
-27.5789118	153.259226	2023-12-07	440	-27.5789	153.2592	525,582.6	6,949,419.7	25,592.0	148,218.9	Eucalyptus tereticornis	20	240	
-27.5789183	153.259177	2023-12-07	441	-27.5789	153.2592	525,580.2	6,949,418.8	25,589.7	148,218.0	Corymbia intermedia	20	240	
-27.5771076	153.257521	2023-12-06	1001	-27.5771	153.2575	525,419.8	6,949,615.0	25,429.3	148,414.4	Melaleuca bracteata	70	840	Trimmed garden specimen
-27.5771005	153.257527	2023-12-06	1002	-27.5771	153.2575	525,420.2	6,949,618.1	25,429.6	148,417.4	Melaleuca bracteata	44	500	Garden species
-27.5770842	153.25754	2023-12-06	1003	-27.5771	153.2575	525,420.3	6,949,621.4	25,429.8	148,420.7	Melaleuca bracteata	22	650	Garden specimen
-27.5764642	153.257592	2023-12-06	1004	-27.5765	153.2576	525,429.2	6,949,683.9	25,438.7	148,483.3	Corymbia intermedia	41.5	498	
-27.5766548	153.258044	2023-12-06	1005	-27.5766	153.2581	525,474.5	6,949,674.2	25,484.0	148,473.5	Corymbia intermedia	0	516	
-27.5766096	153.258124	2023-12-06	1006	-27.5766	153.2581	525,476.2	6,949,673.2	25,485.7	148,472.5	Corymbia intermedia	40.5	486	
-27.5766697	153.258752	2023-12-06	1007	-27.5767	153.2587	525,537.5	6,949,666.2	25,547.0	148,465.6	Corymbia intermedia	44	528	
-27.576719	153.25952	2023-12-06	1008	-27.5767	153.2595	525,617.0	6,949,656.6	25,626.5	148,455.9	Corymbia intermedia	31	470	
-27.5778509	153.262144	2023-12-06	1009	-27.5779	153.2621	525,868.3	6,949,532.8	25,877.9	148,332.1	Eucalyptus racemosa	74	888	Hollow
-27.578388	153.261467	2023-12-06	1010	-27.5784	153.2615	525,805.7	6,949,474.3	25,815.3	148,273.6	Corymbia intermedia	51	612	
-27.5782675	153.260107	2023-12-06	1011	-27.5782	153.2601	525,673.2	6,949,490.4	25,682.7	148,289.7	Eucalyptus racemosa	75	900	
-27.5782383	153.260065	2023-12-06	1012	-27.5782	153.2601	525,671.8	6,949,489.3	25,681.3	148,288.6	Eucalyptus racemosa	22	264	
-27.5781949	153.259984	2023-12-06	1013	-27.5782	153.2600	525,663.3	6,949,492.1	25,672.8	148,291.4	Eucalyptus racemosa	26	312	
-27.5782267	153.259969	2023-12-06	1014	-27.5782	153.2600	525,661.2	6,949,493.6	25,670.7	148,292.9	Eucalyptus racemosa	30.5	366	
-27.5781759	153.259942	2023-12-06	1015	-27.5782	153.2600	525,658.6	6,949,495.4	25,668.1	148,294.6	Corymbia intermedia	33	396	
-27.5777279	153.260048	2023-12-06	1016	-27.5778	153.2601	525,673.0	6,949,543.7	25,682.5	148,343.0	Eucalyptus racemosa	36	432	
-27.5777707	153.260105	2023-12-06	1017	-27.5778	153.2601	525,674.0	6,949,543.1	25,683.5	148,342.4	Corymbia intermedia	42	504	
-27.5778003	153.260121	2023-12-06	1018	-27.5778	153.2601	525,676.1	6,949,539.2	25,685.6	148,338.5	Eucalyptus microcorys	17	204	
-27.5775661	153.260326	2023-12-06	1019	-27.5777	153.2602	525,684.8	6,949,547.4	25,694.3	148,346.7	Corymbia intermedia	38.5	462	
-27.5781394	153.25941	2023-12-06	1020	-27.5781	153.2595	525,609.6	6,949,501.0	25,619.1	148,300.3	Eucalyptus racemosa	39	468	Hollow
-27.5781657	153.259438	2023-12-06	1021	-27.5781	153.2595	525,608.8	6,949,500.5	25,618.3	148,299.7	Corymbia intermedia	46.5	558	
-27.5780539	153.259199	2023-12-06	1022	-27.5781	153.2592	525,588.0	6,949,506.5	25,597.5	148,305.8	Lophostemon confertus (brushbox)	55	660	
-27.5778931	153.259197	2023-12-06	1023	-27.5779	153.2592	525,585.1	6,949,529.6	25,594.6	148,328.9	Lophostemon confertus (brushbox)	53	1040	Possible possumDrey
-27.5778134	153.259167	2023-12-06	1024	-27.5778	153.2592	525,581.6	6,949,539.0	25,591.1	148,338.3	Corymbia intermedia	34	408	
-27.5777718	153.259182	2023-12-06	1025	-27.5778	153.2592	525,584.3	6,949,543.8	25,593.8	148,343.1	Corymbia intermedia	53.5	642	
-27.5777385	153.259225	2023-12-06	1026	-27.5777	153.2592	525,587.2	6,949,548.4	25,596.7	148,347.7	Lophostemon confertus (brushbox)	40	554	
-27.5776919	153.259165	2023-12-06	1027	-27.5777	153.2592	525,583.3	6,949,551.2	25,592.8	148,350.5	Lophostemon confertus (brushbox)	30	360	
-27.5777068	153.259166	2023-12-06	1028	-27.5777	153.2592	525,581.2	6,949,552.0	25,590.7	148,351.3	Lophostemon confertus (brushbox)	36	732	
-27.577644	153.259204	2023-12-06	1029	-27.5776	153.2592	525,585.2	6,949,556.4	25,594.7	148,355.7	Lophostemon confertus (brushbox)	12	195	
-27.5777048	153.259081	2023-12-06	1030	-27.5776	153.2592	525,587.0	6,949,556.0	25,596.5	148,355.3	Eucalyptus microcorys	27	324	
-27.5776289	153.259248	2023-12-06	1031	-27.5776	153.2593	525,594.8	6,949,563.0	25,604.3	148,362.3	Lophostemon confertus (brushbox)	35	540	
-27.5776765	153.258685	2023-12-06	1032	-27.5776	153.2587	525,536.8	6,949,559.9	25,546.3	148,359.3	Eucalyptus racemosa	82	1486	
-27.5776786	153.258682	2023-12-06	1033	-27.5776	153.2587	525,536.6	6,949,557.6	25,546.0	148,356.9	Eucalyptus racemosa	66	792	Hollow
-27.5777892	153.258904	2023-12-06	1034	-27.5778	153.2589	525,557.5	6,949,544.2	25,566.9	148,343.5	Corymbia intermedia	72	864	
-27.5779908	153.25889	2023-12-06	1035	-27.5780	153.2589	525,553.7	6,949,521.6	25,563.2	148,320.9	Lophostemon confertus (brushbox)	41	739	
-27.5779804	153.258826	2023-12-06	1036	-27.5780	153.2588	525,547.4	6,949,521.3	25,556.9	148,320.6	Eucalyptus microcorys	13.5	221	
-27.5780406	153.258495	2023-12-06	1037	-27.5781	153.2587	525,535.6	6,949,510.5	25,545.0	148,309.8	Corymbia intermedia	32	384	
-27.5780374	153.25858	2023-12-06	1038	-27.5780	153.2586	525,524.6	6,949,513.8	25,534.1	148,313.1	Eucalyptus tereticornis	20.5	246	
-27.5779871	153.258551	2023-12-06	1039	-27.5780	153.2586	525,520.6	6,949,520.6	25,530.1	148,319.9	Stag			Stag Hollows
-27.5779201	153.258551	2023-12-06	1040	-27.5779	153.2586	525,521.9	6,949,530.4	25,531.4	148,329.7	Eucalyptus racemosa	23	276	

-27.5778825	153.258574	2023-12-06	1041	-27.5779	153.2586	525,522.0	6,949,532.2	25,531.5	148,331.5	Eucalyptus racemosa	28.5	342	
-27.577891	153.258582	2023-12-06	1042	-27.5779	153.2586	525,524.9	6,949,533.4	25,534.4	148,332.7	Eucalyptus racemosa	11.5	156	
-27.5778855	153.2586	2023-12-06	1043	-27.5778	153.2586	525,525.4	6,949,534.1	25,534.8	148,333.4	Eucalyptus racemosa	14	168	
-27.5778997	153.258611	2023-12-06	1044	-27.5778	153.2586	525,525.1	6,949,534.8	25,534.6	148,334.1	Eucalyptus racemosa	16.5	198	
-27.5778285	153.258636	2023-12-06	1045	-27.5778	153.2586	525,528.9	6,949,539.9	25,538.4	148,339.2	Stag			Stag hollows
-27.5778304	153.25861	2023-12-06	1046	-27.5778	153.2586	525,526.6	6,949,540.0	25,536.0	148,339.3	Eucalyptus racemosa	48	576	
-27.5775623	153.257309	2023-12-06	1047	-27.5775	153.2573	525,399.9	6,949,569.0	25,409.3	148,368.3	Lophostemon confertus (brushbox)	16.5	198	
-27.5787806	153.257018	2023-12-06	1048	-27.5788	153.2570	525,370.8	6,949,432.9	25,380.2	148,232.2	Eucalyptus microcorys	44	528	
-27.5788932	153.256996	2023-12-06	1049	-27.5788	153.2570	525,363.8	6,949,432.0	25,373.2	148,231.2	Eucalyptus tereticornis	88	1056	Large hollows
-27.578812	153.25697	2023-12-06	1050	-27.5788	153.2570	525,364.5	6,949,428.0	25,373.9	148,227.3	Eucalyptus tereticornis	44	528	
-27.5789987	153.257001	2023-12-06	1051	-27.5789	153.2570	525,364.7	6,949,414.5	25,374.1	148,213.8	Melaleuca quinquenervia	27	324	
-27.5789738	153.256928	2023-12-06	1052	-27.5789	153.2570	525,362.3	6,949,415.3	25,371.6	148,214.5	Eucalyptus tereticornis	37	444	
-27.5789516	153.256865	2023-12-06	1053	-27.5789	153.2569	525,354.7	6,949,414.7	25,364.1	148,214.0	Corymbia intermedia	24	288	
-27.5790033	153.256848	2023-12-06	1054	-27.5790	153.2569	525,351.8	6,949,409.9	25,361.2	148,209.2	Melaleuca quinquenervia	11.5	138	
-27.5790118	153.25683	2023-12-06	1055	-27.5790	153.2569	525,351.8	6,949,409.3	25,361.2	148,208.5	Melaleuca quinquenervia	9	108	
-27.5790265	153.256834	2023-12-06	1056	-27.5790	153.2568	525,350.2	6,949,407.3	25,359.6	148,206.6	Melaleuca quinquenervia	15	180	
-27.5790319	153.256799	2023-12-06	1057	-27.5790	153.2568	525,349.4	6,949,407.0	25,358.8	148,206.3	Corymbia intermedia	41	492	
-27.5790708	153.256808	2023-12-06	1058	-27.5790	153.2568	525,348.4	6,949,404.7	25,357.8	148,204.0	Eucalyptus tindaliae	8	96	
-27.5792721	153.256779	2023-12-06	1059	-27.5792	153.2568	525,345.5	6,949,379.2	25,354.9	148,178.4	Corymbia trachyphloia	19.5	234	
-27.5792833	153.256906	2023-12-06	1061	-27.5793	153.2569	525,356.7	6,949,378.5	25,366.1	148,177.8	Corymbia trachyphloia	46	552	
-27.5793138	153.256976	2023-12-06	1062	-27.5793	153.2570	525,363.4	6,949,376.2	25,372.8	148,175.5	Corymbia trachyphloia	28	336	
-27.5792658	153.257002	2023-12-06	1063	-27.5792	153.2570	525,365.6	6,949,379.2	25,375.0	148,178.4	Corymbia trachyphloia	50	580	Hollows
-27.57933	153.257062	2023-12-06	1064	-27.5793	153.2571	525,373.7	6,949,374.0	25,383.1	148,173.2	Corymbia trachyphloia	48	576	
-27.579348	153.257151	2023-12-06	1065	-27.5793	153.2572	525,384.5	6,949,371.9	25,393.9	148,171.2	Lophostemon confertus (brushbox)	52	624	
-27.5793811	153.257704	2023-12-06	1066	-27.5794	153.2576	525,427.8	6,949,364.5	25,437.2	148,163.8	Corymbia intermedia	22	323	
-27.5793829	153.257637	2023-12-06	1067	-27.5794	153.2576	525,428.7	6,949,365.4	25,438.2	148,164.6	Corymbia intermedia	20	240	
-27.5794077	153.257684	2023-12-06	1068	-27.5794	153.2577	525,438.9	6,949,363.6	25,448.3	148,162.9	Corymbia intermedia	30	360	
-27.5793835	153.257731	2023-12-06	1069	-27.5794	153.2578	525,441.2	6,949,365.5	25,450.6	148,164.7	Corymbia intermedia	23	276	
-27.5794555	153.257779	2023-12-06	1070	-27.5794	153.2578	525,442.5	6,949,362.7	25,451.9	148,161.9	Angophora leiocarpa	12	259	
-27.5794943	153.258074	2023-12-06	1071	-27.5794	153.2580	525,464.5	6,949,358.2	25,474.0	148,157.4	Lophostemon confertus (brushbox)	46	552	
-27.5794266	153.25802	2023-12-06	1072	-27.5794	153.2580	525,465.7	6,949,358.2	25,475.1	148,157.4	Lophostemon suaveolens (swampbox)	24	288	
													Hollows
-27.5789354	153.258016	2023-12-06	1073	-27.5789	153.2580	525,464.3	6,949,420.5	25,473.8	148,219.8	Eucalyptus racemosa	72	864	Small nest in wattle next to
-27.5787803	153.258014	2023-12-06	1074	-27.5788	153.2580	525,468.3	6,949,433.0	25,477.8	148,232.3	Eucalyptus tereticornis	9	137	
-27.5787554	153.25801	2023-12-06	1075	-27.5787	153.2580	525,467.1	6,949,434.7	25,476.5	148,234.0	Eucalyptus racemosa	73	876	Hollow
-27.5787547	153.258035	2023-12-06	1076	-27.5787	153.2580	525,468.6	6,949,434.4	25,478.0	148,233.6	Eucalyptus racemosa	10	140	
-27.5787347	153.257914	2023-12-06	1077	-27.5787	153.2579	525,457.2	6,949,439.5	25,466.7	148,238.7	Corymbia intermedia	10	120	
-27.5787199	153.257935	2023-12-06	1078	-27.5787	153.2579	525,457.7	6,949,440.2	25,467.1	148,239.4	Melaleuca quinquenervia	6	72	
-27.578722	153.257901	2023-12-06	1079	-27.5787	153.2579	525,456.4	6,949,439.6	25,465.8	148,238.8	Eucalyptus tereticornis	10	120	
-27.5787002	153.257898	2023-12-06	1080	-27.5787	153.2579	525,455.8	6,949,441.8	25,465.3	148,241.1	Corymbia intermedia	6	72	
-27.5786341	153.257898	2023-12-06	1081	-27.5786	153.2579	525,458.5	6,949,450.0	25,467.9	148,249.2	Lophostemon suaveolens (swampbox)	10	120	
-27.5786306	153.257932	2023-12-06	1082	-27.5786	153.2579	525,458.6	6,949,450.8	25,468.0	148,250.1	Lophostemon suaveolens (swampbox)	6	94	
-27.5786227	153.257931	2023-12-06	1083	-27.5786	153.2579	525,459.8	6,949,452.9	25,469.3	148,252.2	Eucalyptus microcorys	12	144	
-27.5785763	153.257953	2023-12-06	1084	-27.5786	153.2579	525,459.4	6,949,455.3	25,468.8	148,254.6	Melaleuca quinquenervia	11	216	
-27.5785105	153.257954	2023-12-06	1085	-27.5785	153.2580	525,460.8	6,949,463.8	25,470.2	148,263.1	Corymbia intermedia	6	72	
-27.5785162	153.257933	2023-12-06	1086	-27.5785	153.2580	525,460.8	6,949,464.1	25,470.2	148,263.4	Lophostemon suaveolens (swampbox)	5	60	
-27.5784941	153.257952	2023-12-06	1087	-27.5785	153.2580	525,460.1	6,949,464.5	25,469.5	148,263.7	Lophostemon suaveolens (swampbox)	17	264	
-27.5785025	153.257943	2023-12-06	1088	-27.5785	153.2580	525,460.6	6,949,465.1	25,470.1	148,264.4	Lophostemon suaveolens (swampbox)	12	144	
-27.5784855	153.257948	2023-12-06	1089	-27.5785	153.2580	525,461.0	6,949,466.8	25,470.4	148,266.0	Lophostemon suaveolens (swampbox)	12	144	
-27.5784827	153.257966	2023-12-06	1090	-27.5784	153.2580	525,461.2	6,949,467.8	25,470.6	148,267.0	Melaleuca quinquenervia	14	168	

-27.5783674	153.257959	2023-12-06	1091	-27.5783	153.2580	525,465.6	6,949,481.5	25,475.0	148,280.7	Corymbia intermedia	14.5	277		
-27.5786166	153.25803	2023-12-06	1092	-27.5786	153.2579	525,454.6	6,949,451.4	25,464.0	148,250.6	Eucalyptus tereticornis	90	1080		
-27.5780141	153.257675	2023-12-06	1093	-27.5780	153.2577	525,436.1	6,949,522.4	25,445.5	148,321.7	Corymbia intermedia	20	240		
-27.5779813	153.257758	2023-12-06	1094	-27.5779	153.2578	525,443.8	6,949,523.8	25,453.2	148,323.1	Corymbia intermedia	46	552		
-27.5780132	153.25792	2023-12-06	1095	-27.5780	153.2579	525,458.9	6,949,519.2	25,468.3	148,318.5	Corymbia intermedia	40	611		
-27.578018	153.257942	2023-12-06	1096	-27.5780	153.2579	525,459.7	6,949,519.9	25,469.1	148,319.2	Corymbia intermedia	10	120		
-27.5780045	153.257987	2023-12-06	1097	-27.5780	153.2580	525,463.9	6,949,519.1	25,473.3	148,318.4	Corymbia intermedia	17	204		
-27.5780189	153.258008	2023-12-06	1098	-27.5780	153.2580	525,468.4	6,949,518.6	25,477.8	148,317.9	Corymbia intermedia	50	600		
-27.5781208	153.258041	2023-12-06	1099	-27.5781	153.2580	525,466.6	6,949,501.0	25,476.0	148,300.2	Corymbia intermedia	10	161		
-27.5781823	153.258023	2023-12-06	1100	-27.5781	153.2580	525,466.6	6,949,500.9	25,476.1	148,300.2	Eucalyptus tereticornis	8	96		
-27.5780657	153.258147	2023-12-06	1101	-27.5780	153.2581	525,474.5	6,949,516.9	25,483.9	148,316.2	Corymbia intermedia	24.5	294		
-27.5780627	153.258246	2023-12-06	1102	-27.5780	153.2583	525,490.7	6,949,514.3	25,500.1	148,313.6	Corymbia intermedia	58	696		
-27.5781056	153.258276	2023-12-06	1103	-27.5781	153.2583	525,495.5	6,949,507.8	25,504.9	148,307.1	Eucalyptus microcorys	10	120		
-27.5782645	153.258162	2023-12-06	1104	-27.5782	153.2582	525,481.9	6,949,489.9	25,491.4	148,289.1	Eucalyptus tereticornis	14	168		
-27.5782868	153.258145	2023-12-06	1105	-27.5782	153.2582	525,482.8	6,949,490.1	25,492.2	148,289.4	Lophostemon suaveolens (swampbox)	8	96		
-27.578295	153.258176	2023-12-06	1106	-27.5783	153.2582	525,483.5	6,949,489.6	25,492.9	148,288.9	Eucalyptus tereticornis	9	108		
-27.5782868	153.258186	2023-12-06	1107	-27.5783	153.2582	525,483.1	6,949,487.7	25,492.6	148,287.0	Lophostemon suaveolens (swampbox)	7	84		
-27.5783055	153.258201	2023-12-06	1108	-27.5783	153.2582	525,484.1	6,949,486.8	25,493.5	148,286.1	Eucalyptus tereticornis	12	144		
-27.5782957	153.258207	2023-12-06	1109	-27.5783	153.2582	525,483.3	6,949,485.1	25,492.7	148,284.3	Lophostemon suaveolens (swampbox)	10	161		
-27.5783123	153.258203	2023-12-06	1110	-27.5783	153.2582	525,483.5	6,949,484.6	25,493.0	148,283.8	Lophostemon suaveolens (swampbox)	9	108		
-27.5785545	153.258219	2023-12-06	1111	-27.5785	153.2583	525,490.0	6,949,461.3	25,499.4	148,260.6	Lophostemon suaveolens (swampbox)	11	132		
-27.578537	153.258238	2023-12-06	1112	-27.5785	153.2583	525,491.1	6,949,460.9	25,500.6	148,260.2	Lophostemon suaveolens (swampbox)	9	108		
-27.5785203	153.258225	2023-12-06	1113	-27.5785	153.2583	525,489.6	6,949,460.5	25,499.0	148,259.8	Lophostemon suaveolens (swampbox)	9	108		
-27.5785406	153.258197	2023-12-06	1114	-27.5785	153.2582	525,489.1	6,949,460.3	25,498.6	148,259.6	Lophostemon suaveolens (swampbox)	10	120		
-27.5793493	153.258149	2023-12-06	1115	-27.5794	153.2581	525,478.1	6,949,365.1	25,487.5	148,164.3	Lophostemon confertus (brushbox)	64	768	Drey	
-27.5794572	153.258228	2023-12-06	1116	-27.5794	153.2583	525,489.8	6,949,358.8	25,499.3	148,158.0	Lophostemon suaveolens (swampbox)	14.5	174		
-27.5794369	153.258238	2023-12-06	1117	-27.5794	153.2582	525,489.1	6,949,358.6	25,498.5	148,157.9	Melaleuca quinquenervia	19	228		
-27.5793982	153.258218	2023-12-06	1118	-27.5794	153.2582	525,482.7	6,949,361.8	25,492.1	148,161.0	Melaleuca quinquenervia	14	264		
-27.5793321	153.2583	2023-12-06	1119	-27.5793	153.2583	525,497.7	6,949,368.6	25,507.2	148,167.8	Melaleuca quinquenervia	24	509		
-27.579385	153.258269	2023-12-06	1120	-27.5794	153.2583	525,493.9	6,949,362.9	25,503.4	148,162.2	Lophostemon suaveolens (swampbox)	11	132		
-27.5794072	153.258268	2023-12-06	1121	-27.5794	153.2583	525,492.9	6,949,361.7	25,502.4	148,160.9	Melaleuca quinquenervia	27	324		
-27.5794351	153.258267	2023-12-06	1122	-27.5794	153.2583	525,491.1	6,949,359.1	25,500.6	148,158.3	Melaleuca quinquenervia	11	132		
-27.579437	153.258262	2023-12-06	1123	-27.5794	153.2583	525,492.8	6,949,357.9	25,502.2	148,157.1	Lophostemon suaveolens (swampbox)	12	144		
-27.5793163	153.258238	2023-12-06	1124	-27.5793	153.2583	525,489.8	6,949,372.2	25,499.3	148,171.5	Lophostemon suaveolens (swampbox)	24.5	294		
-27.5792737	153.258237	2023-12-06	1125	-27.5793	153.2582	525,487.7	6,949,371.3	25,497.1	148,170.6	Lophostemon suaveolens (swampbox)	10	120		
-27.5791858	153.258291	2023-12-06	1126	-27.5793	153.2582	525,486.9	6,949,372.1	25,496.4	148,171.3	Lophostemon suaveolens (swampbox)	14	168		
-27.5792843	153.258196	2023-12-06	1127	-27.5793	153.2582	525,487.4	6,949,372.9	25,496.8	148,172.1	Lophostemon suaveolens (swampbox)	8	96		
-27.5792953	153.258154	2023-12-06	1128	-27.5793	153.2582	525,479.7	6,949,373.1	25,489.1	148,172.3	Lophostemon suaveolens (swampbox)	21	336		
-27.5792652	153.258205	2023-12-06	1129	-27.5793	153.2582	525,488.6	6,949,375.4	25,498.1	148,174.7	Lophostemon suaveolens (swampbox)	8	96		
-27.5792874	153.258249	2023-12-06	1130	-27.5793	153.2583	525,490.0	6,949,374.2	25,499.5	148,173.4	Lophostemon suaveolens (swampbox)	19	228		
-27.5792844	153.25829	2023-12-06	1131	-27.5793	153.2583	525,491.9	6,949,374.6	25,501.4	148,173.8	Lophostemon suaveolens (swampbox)	18.5	222		
-27.5792482	153.258255	2023-12-06	1132	-27.5793	153.2582	525,488.4	6,949,378.2	25,497.8	148,177.5	Lophostemon suaveolens (swampbox)	10	120		
-27.5792881	153.258126	2023-12-06	1133	-27.5793	153.2582	525,480.2	6,949,376.2	25,489.6	148,175.5	Lophostemon suaveolens (swampbox)	14	168		
-27.5793501	153.258195	2023-12-06	1134	-27.5793	153.2582	525,479.9	6,949,376.7	25,489.4	148,175.9	Lophostemon suaveolens (swampbox)	10	110		
-27.579269	153.258154	2023-12-06	1135	-27.5793	153.2582	525,480.5	6,949,377.4	25,489.9	148,176.6	Lophostemon suaveolens (swampbox)	30	360		
-27.5792101	153.258163	2023-12-06	1136	-27.5792	153.2582	525,484.4	6,949,385.7	25,493.8	148,184.9	Lophostemon suaveolens (swampbox)	18	216		
-27.5791971	153.258176	2023-12-06	1137	-27.5792	153.2582	525,483.8	6,949,387.6	25,493.2	148,186.8	Eucalyptus tereticornis	9	108		
-27.5791722	153.258214	2023-12-06	1138	-27.5792	153.2582	525,486.8	6,949,387.1	25,496.2	148,186.4	Lophostemon suaveolens (swampbox)	15.5	259		
-27.5791386	153.258273	2023-12-06	1139	-27.5791	153.2583	525,492.4	6,949,390.6	25,501.8	148,189.9	Lophostemon suaveolens (swampbox)	15	180		
-27.5789609	153.258253	2023-12-06	1140	-27.5789	153.2582	525,480.9	6,949,421.7	25,490.3	148,220.9	Eucalyptus tereticornis	25	300		

-27.5789326	153.258052	2023-12-06	1141	-27.5789	153.2581	525,473.0	6,949,416.1	25,482.5	148,215.4	Lophostemon suaveolens (swampbox)	8	96		
-27.57889	153.258047	2023-12-06	1142	-27.5789	153.2581	525,471.9	6,949,418.9	25,481.3	148,218.2	Corymbia intermedia	34	408		
-27.5788704	153.258053	2023-12-06	1143	-27.5789	153.2581	525,470.0	6,949,419.5	25,479.5	148,218.8	Lophostemon suaveolens (swampbox)	13	156		
-27.57889	153.258053	2023-12-06	1144	-27.5789	153.2580	525,468.3	6,949,419.9	25,477.8	148,219.2	Lophostemon suaveolens (swampbox)	14	158		
-27.57888	153.25823	2023-12-06	1145	-27.5789	153.2583	525,492.1	6,949,421.6	25,501.5	148,220.8	Lophostemon suaveolens (swampbox)	16	192		
-27.5788681	153.258259	2023-12-06	1146	-27.5788	153.2583	525,492.2	6,949,423.5	25,501.6	148,222.8	Lophostemon suaveolens (swampbox)	30	360	Arboreal termite nest with hole	
-27.578885	153.258286	2023-12-06	1147	-27.5789	153.2583	525,493.6	6,949,421.5	25,503.0	148,220.8	Lophostemon suaveolens (swampbox)	12	144		
-27.5788376	153.258267	2023-12-06	1148	-27.5788	153.2583	525,494.1	6,949,424.7	25,503.5	148,224.0	Lophostemon suaveolens (swampbox)	15	180		
-27.5788286	153.258269	2023-12-06	1149	-27.5788	153.2583	525,491.9	6,949,425.6	25,501.3	148,224.8	Lophostemon suaveolens (swampbox)	9	108		
-27.578821	153.258269	2023-12-06	1150	-27.5788	153.2583	525,491.8	6,949,426.6	25,501.3	148,225.8	Lophostemon suaveolens (swampbox)	12	144		
-27.5788152	153.258239	2023-12-06	1151	-27.5788	153.2582	525,489.3	6,949,428.6	25,498.7	148,227.8	Lophostemon suaveolens (swampbox)	10	120		
-27.5787906	153.258329	2023-12-06	1152	-27.5788	153.2583	525,493.6	6,949,430.2	25,503.1	148,229.5	Lophostemon suaveolens (swampbox)	27	324		
-27.5788094	153.258289	2023-12-06	1153	-27.5788	153.2583	525,495.8	6,949,431.2	25,505.2	148,230.4	Lophostemon suaveolens (swampbox)	23	276		
-27.5787935	153.258268	2023-12-06	1154	-27.5788	153.2583	525,489.6	6,949,432.1	25,499.0	148,231.4	Lophostemon suaveolens (swampbox)	10	120		
-27.5787891	153.258242	2023-12-06	1155	-27.5787	153.2583	525,492.2	6,949,434.4	25,501.6	148,233.7	Lophostemon suaveolens (swampbox)	9	108		
-27.5787604	153.258258	2023-12-06	1156	-27.5787	153.2583	525,493.1	6,949,436.0	25,502.5	148,235.2	Lophostemon suaveolens (swampbox)	9	108		
-27.5787379	153.258256	2023-12-06	1157	-27.5787	153.2583	525,492.4	6,949,436.3	25,501.8	148,235.5	Lophostemon suaveolens (swampbox)	17.5	210		
-27.5787463	153.258245	2023-12-06	1158	-27.5787	153.2583	525,490.9	6,949,435.6	25,500.3	148,234.9	Lophostemon suaveolens (swampbox)	21	252		
-27.5787245	153.258296	2023-12-06	1159	-27.5787	153.2583	525,494.6	6,949,435.7	25,504.0	148,234.9	Lophostemon suaveolens (swampbox)	7	84		
-27.5787492	153.25832	2023-12-06	1160	-27.5787	153.2583	525,495.3	6,949,436.3	25,504.8	148,235.6	Lophostemon suaveolens (swampbox)	7	84		
-27.5787749	153.258344	2023-12-06	1161	-27.5787	153.2583	525,496.1	6,949,435.2	25,505.5	148,234.5	Lophostemon suaveolens (swampbox)	12	144		
-27.578755	153.258311	2023-12-06	1162	-27.5787	153.2583	525,497.0	6,949,436.8	25,506.4	148,236.1	Lophostemon suaveolens (swampbox)	8	96		
-27.5787733	153.258355	2023-12-06	1163	-27.5787	153.2584	525,501.2	6,949,434.8	25,510.6	148,234.1	Lophostemon suaveolens (swampbox)	18	216		
-27.5788032	153.258325	2023-12-06	1164	-27.5788	153.2584	525,501.9	6,949,431.9	25,511.3	148,231.2	Lophostemon suaveolens (swampbox)	21	353		
-27.5788089	153.258332	2023-12-06	1165	-27.5788	153.2584	525,501.6	6,949,427.1	25,511.0	148,226.4	Melaleuca quinquenervia	34	408		
-27.5788206	153.25833	2023-12-06	1166	-27.5788	153.2584	525,500.3	6,949,425.1	25,509.8	148,224.3	Lophostemon suaveolens (swampbox)	1.5	18		
-27.5788307	153.258335	2023-12-06	1167	-27.5788	153.2584	525,500.6	6,949,425.3	25,510.0	148,224.6	Melaleuca quinquenervia	15	180		
-27.5787061	153.258296	2023-12-06	1168	-27.5787	153.2583	525,493.9	6,949,438.0	25,503.3	148,237.3	Lophostemon suaveolens (swampbox)	10	120		
-27.578706	153.258281	2023-12-06	1169	-27.5787	153.2583	525,494.4	6,949,439.4	25,503.8	148,238.7	Lophostemon suaveolens (swampbox)	16	192		
-27.5786968	153.258278	2023-12-06	1170	-27.5787	153.2583	525,492.0	6,949,439.9	25,501.4	148,239.2	Lophostemon suaveolens (swampbox)	16	226		
-27.5786982	153.258298	2023-12-06	1171	-27.5787	153.2583	525,495.5	6,949,441.0	25,504.9	148,240.2	Lophostemon suaveolens (swampbox)	10	120		
-27.5786963	153.25834	2023-12-06	1172	-27.5787	153.2584	525,502.4	6,949,440.9	25,511.8	148,240.2	Melaleuca quinquenervia	12	144		
-27.578748	153.258379	2023-12-06	1173	-27.5787	153.2584	525,503.9	6,949,437.5	25,513.3	148,236.8	Lophostemon suaveolens (swampbox)	10	120		
-27.5786851	153.258378	2023-12-06	1174	-27.5787	153.2584	525,504.4	6,949,438.6	25,513.9	148,237.8	Lophostemon suaveolens (swampbox)	14	168		
-27.5786924	153.258354	2023-12-06	1175	-27.5787	153.2584	525,502.4	6,949,441.0	25,511.8	148,240.2	Melaleuca quinquenervia	13	146		
-27.5786195	153.258342	2023-12-06	1176	-27.5786	153.2583	525,495.5	6,949,446.3	25,505.0	148,245.5	Lophostemon suaveolens (swampbox)	23.5	282		
-27.5786252	153.25831	2023-12-06	1177	-27.5786	153.2583	525,494.0	6,949,449.6	25,503.4	148,248.8	Lophostemon suaveolens (swampbox)	23.5	282		
-27.5786104	153.258272	2023-12-06	1178	-27.5786	153.2583	525,494.1	6,949,450.2	25,503.5	148,249.4	Lophostemon suaveolens (swampbox)	17.5	210		
-27.5785739	153.25833	2023-12-06	1179	-27.5786	153.2583	525,496.4	6,949,451.8	25,505.8	148,251.1	Lophostemon suaveolens (swampbox)	14	168		
-27.5785858	153.258296	2023-12-06	1180	-27.5786	153.2583	525,493.7	6,949,452.6	25,503.1	148,251.9	Lophostemon suaveolens (swampbox)	15	180		
-27.5785631	153.258298	2023-12-06	1181	-27.5786	153.2583	525,493.6	6,949,453.1	25,503.0	148,252.4	Lophostemon suaveolens (swampbox)	12	144		
-27.5785626	153.25829	2023-12-06	1182	-27.5786	153.2583	525,494.0	6,949,454.2	25,503.5	148,253.4	Lophostemon suaveolens (swampbox)	18	399		
-27.5785193	153.258308	2023-12-06	1183	-27.5785	153.2583	525,494.7	6,949,456.4	25,504.2	148,255.7	Lophostemon suaveolens (swampbox)	23	408		
-27.5785588	153.258339	2023-12-06	1184	-27.5785	153.2584	525,501.2	6,949,456.5	25,510.6	148,255.7	Lophostemon suaveolens (swampbox)	32	578		
-27.5785605	153.258363	2023-12-06	1185	-27.5786	153.2583	525,498.9	6,949,451.2	25,508.4	148,250.5	Lophostemon suaveolens (swampbox)	13	190		
-27.5785797	153.258358	2023-12-06	1186	-27.5786	153.2584	525,500.6	6,949,449.8	25,510.0	148,249.0	Lophostemon suaveolens (swampbox)	10	216		
-27.5785975	153.258337	2023-12-06	1187	-27.5786	153.2584	525,500.5	6,949,448.3	25,509.9	148,247.6	Lophostemon suaveolens (swampbox)	10	120		
-27.5786403	153.258388	2023-12-06	1188	-27.5786	153.2584	525,501.7	6,949,447.3	25,511.1	148,246.6	Lophostemon suaveolens (swampbox)	12	144		
-27.5786489	153.258407	2023-12-06	1189	-27.5787	153.2584	525,503.7	6,949,444.3	25,513.1	148,243.6	Lophostemon suaveolens (swampbox)	13	156		

-27.5786596	153.258387	2023-12-06	1190	-27.5787	153.2584	525,503.9	6,949,445.2	25,513.4	148,244.4	Lophostemon suaveolens (swampbox)	11	132	
-27.5786004	153.258384	2023-12-06	1191	-27.5786	153.2584	525,503.4	6,949,446.2	25,512.9	148,245.5	Lophostemon suaveolens (swampbox)	11	132	
-27.5786361	153.258378	2023-12-06	1192	-27.5786	153.2584	525,503.7	6,949,447.7	25,513.2	148,247.0	Lophostemon suaveolens (swampbox)	12	144	
-27.5786601	153.258431	2023-12-06	1193	-27.5786	153.2584	525,505.2	6,949,447.1	25,514.7	148,246.3	Lophostemon suaveolens (swampbox)	12	144	
-27.578581	153.258391	2023-12-06	1194	-27.5786	153.2584	525,504.9	6,949,448.7	25,514.3	148,248.0	Lophostemon suaveolens (swampbox)	24	340	
-27.5786027	153.258403	2023-12-06	1195	-27.5786	153.2584	525,506.6	6,949,450.7	25,516.1	148,250.0	Lophostemon suaveolens (swampbox)	14	168	
-27.5785501	153.258397	2023-12-06	1196	-27.5786	153.2584	525,508.9	6,949,454.5	25,518.4	148,253.7	Lophostemon suaveolens (swampbox)	18	216	
-27.5785547	153.258405	2023-12-06	1197	-27.5786	153.2584	525,508.9	6,949,455.1	25,518.3	148,254.4	Lophostemon suaveolens (swampbox)	16	192	
-27.5784871	153.258387	2023-12-06	1198	-27.5785	153.2584	525,508.0	6,949,461.8	25,517.4	148,261.1	Lophostemon suaveolens (swampbox)	16	336	
-27.5784791	153.258404	2023-12-06	1199	-27.5785	153.2584	525,508.1	6,949,467.2	25,517.6	148,266.5	Lophostemon suaveolens (swampbox)	13	156	
-27.5784938	153.258405	2023-12-06	1200	-27.5785	153.2584	525,506.2	6,949,467.2	25,515.6	148,266.5	Lophostemon suaveolens (swampbox)	23	276	
-27.5784845	153.258367	2023-12-06	1201	-27.5784	153.2584	525,505.6	6,949,468.1	25,515.0	148,267.3	Lophostemon suaveolens (swampbox)	9	108	
-27.5784572	153.258349	2023-12-06	1202	-27.5784	153.2584	525,503.3	6,949,469.0	25,512.8	148,268.3	Lophostemon suaveolens (swampbox)	11	132	
-27.5784435	153.258363	2023-12-06	1203	-27.5784	153.2584	525,502.4	6,949,470.2	25,511.9	148,269.5	Lophostemon suaveolens (swampbox)	13	156	
-27.5784533	153.258327	2023-12-06	1204	-27.5785	153.2583	525,497.2	6,949,465.6	25,506.6	148,264.9	Lophostemon suaveolens (swampbox)	18	216	
-27.5784018	153.258386	2023-12-06	1205	-27.5784	153.2584	525,502.0	6,949,472.8	25,511.5	148,272.0	Lophostemon suaveolens (swampbox)	20	240	
-27.5784214	153.258371	2023-12-06	1206	-27.5784	153.2584	525,502.1	6,949,473.4	25,511.6	148,272.7	Lophostemon suaveolens (swampbox)	11	132	
-27.5784117	153.258342	2023-12-06	1207	-27.5784	153.2584	525,501.9	6,949,474.4	25,511.3	148,273.7	Lophostemon suaveolens (swampbox)	12	260	
-27.5784175	153.258315	2023-12-06	1208	-27.5784	153.2584	525,499.8	6,949,475.8	25,509.3	148,275.0	Lophostemon suaveolens (swampbox)	23	317	
-27.5783893	153.258362	2023-12-06	1209	-27.5784	153.2584	525,500.1	6,949,476.8	25,509.5	148,276.1	Lophostemon suaveolens (swampbox)	11	132	
-27.5783857	153.25836	2023-12-06	1210	-27.5784	153.2584	525,499.5	6,949,476.9	25,508.9	148,276.2	Lophostemon suaveolens (swampbox)	23	276	
-27.578356	153.25832	2023-12-06	1211	-27.5784	153.2584	525,499.4	6,949,477.6	25,508.9	148,276.9	Lophostemon suaveolens (swampbox)	10	120	
-27.5783314	153.258397	2023-12-06	1212	-27.5784	153.2584	525,504.0	6,949,477.7	25,513.4	148,277.0	Lophostemon suaveolens (swampbox)	10	120	
-27.5783662	153.2584	2023-12-06	1213	-27.5783	153.2584	525,506.1	6,949,479.9	25,515.5	148,279.1	Lophostemon suaveolens (swampbox)	16	192	
-27.5783677	153.258329	2023-12-06	1214	-27.5783	153.2584	525,500.1	6,949,479.5	25,509.5	148,278.8	Lophostemon suaveolens (swampbox)	17	204	
-27.5783484	153.258374	2023-12-06	1215	-27.5783	153.2584	525,500.5	6,949,480.6	25,509.9	148,279.9	Lophostemon suaveolens (swampbox)	32	384	
-27.5783342	153.258357	2023-12-06	1216	-27.5783	153.2583	525,498.6	6,949,482.1	25,508.0	148,281.4	Lophostemon suaveolens (swampbox)	9.5	114	
-27.5782774	153.258373	2023-12-06	1217	-27.5783	153.2584	525,500.6	6,949,484.5	25,510.1	148,283.8	Lophostemon suaveolens (swampbox)	11.5	138	
-27.5782888	153.258357	2023-12-06	1218	-27.5783	153.2584	525,501.1	6,949,485.5	25,510.5	148,284.8	Lophostemon suaveolens (swampbox)	12	144	
-27.5782842	153.258365	2023-12-06	1219	-27.5783	153.2584	525,501.6	6,949,486.3	25,511.1	148,285.5	Lophostemon suaveolens (swampbox)	20	240	
-27.57829	153.258365	2023-12-06	1220	-27.5783	153.2584	525,502.4	6,949,487.8	25,511.8	148,287.0	Lophostemon suaveolens (swampbox)	9	108	
-27.5782726	153.258426	2023-12-06	1221	-27.5783	153.2584	525,506.7	6,949,488.0	25,516.1	148,287.3	Lophostemon suaveolens (swampbox)	10	120	
-27.5782765	153.258452	2023-12-06	1222	-27.5782	153.2584	525,507.9	6,949,490.0	25,517.3	148,289.3	Lophostemon suaveolens (swampbox)	12	144	
-27.5782161	153.258421	2023-12-06	1223	-27.5782	153.2584	525,506.7	6,949,491.5	25,516.1	148,290.8	Lophostemon suaveolens (swampbox)	9	108	
-27.5782431	153.258413	2023-12-06	1224	-27.5782	153.2584	525,507.0	6,949,493.0	25,516.5	148,292.3	Lophostemon suaveolens (swampbox)	8	96	
-27.5782493	153.25838	2023-12-06	1225	-27.5782	153.2584	525,502.7	6,949,493.0	25,512.1	148,292.3	Lophostemon suaveolens (swampbox)	13	156	
-27.5781846	153.258389	2023-12-06	1226	-27.5782	153.2584	525,503.7	6,949,497.7	25,513.2	148,297.0	Melaleuca quinquenervia	18	266	
-27.5781223	153.258392	2023-12-06	1227	-27.5781	153.2584	525,507.1	6,949,501.4	25,516.5	148,300.7	Lophostemon suaveolens (swampbox)	9	108	
-27.5781527	153.25838	2023-12-06	1228	-27.5781	153.2584	525,504.3	6,949,502.6	25,513.8	148,301.9	Lophostemon suaveolens (swampbox)	8	96	
-27.5781293	153.258366	2023-12-06	1229	-27.5781	153.2584	525,503.0	6,949,502.4	25,512.4	148,301.7	Lophostemon suaveolens (swampbox)	9	108	
-27.5781017	153.258594	2023-12-06	1230	-27.5781	153.2586	525,524.5	6,949,507.0	25,534.0	148,306.3	Lophostemon suaveolens (swampbox)	13	156	
-27.5781315	153.25875	2023-12-06	1231	-27.5781	153.2588	525,541.8	6,949,506.4	25,551.3	148,305.7	Corymbia intermedia	52	624	Female and juvenile koala
-27.5781627	153.258795	2023-12-06	1232	-27.5781	153.2588	525,543.6	6,949,504.1	25,553.1	148,303.3	Lophostemon suaveolens (swampbox)	16	192	
-27.578133	153.258861	2023-12-06	1233	-27.5781	153.2588	525,546.2	6,949,503.9	25,555.6	148,303.2	Lophostemon suaveolens (swampbox)	10	161	
-27.5781551	153.258818	2023-12-06	1234	-27.5781	153.2588	525,548.3	6,949,500.9	25,557.7	148,300.2	Lophostemon suaveolens (swampbox)	9	108	
-27.5781331	153.258934	2023-12-06	1235	-27.5782	153.2589	525,555.9	6,949,500.5	25,565.3	148,299.7	Lophostemon suaveolens (swampbox)	25	300	
-27.5781511	153.258998	2023-12-06	1236	-27.5782	153.2590	525,561.8	6,949,497.5	25,571.2	148,296.7	Lophostemon suaveolens (swampbox)	22	264	
-27.5781678	153.258998	2023-12-06	1237	-27.5782	153.2590	525,562.0	6,949,497.9	25,571.5	148,297.2	Corymbia intermedia	13	156	
-27.5781659	153.259065	2023-12-06	1238	-27.5782	153.2590	525,567.8	6,949,495.8	25,577.3	148,295.1	Lophostemon suaveolens (swampbox)	12	144	
-27.5782127	153.259065	2023-12-06	1239	-27.5782	153.2591	525,568.8	6,949,495.1	25,578.3	148,294.4	Eucalyptus racemosa	56	672	Big hollows

-27.5782688	153.259063	2023-12-07	1240	-27.5783	153.2591	525,571.1	6,949,487.0	25,580.6	148,286.3	Lophostemon suaveolens (swampbox)	24.5	294
-27.578271	153.259051	2023-12-07	1241	-27.5783	153.2591	525,572.9	6,949,487.0	25,582.4	148,286.3	Lophostemon suaveolens (swampbox)	16	192
-27.5782477	153.259125	2023-12-07	1242	-27.5783	153.2591	525,573.6	6,949,487.5	25,583.1	148,286.7	Lophostemon suaveolens (swampbox)	16	192
-27.5782966	153.259112	2023-12-07	1243	-27.5783	153.2591	525,574.0	6,949,482.9	25,583.4	148,282.2	Lophostemon suaveolens (swampbox)	13	156
-27.5782898	153.259062	2023-12-07	1244	-27.5783	153.2591	525,572.9	6,949,481.9	25,582.4	148,281.2	Lophostemon suaveolens (swampbox)	31	372
-27.5783589	153.259073	2023-12-07	1245	-27.5784	153.2591	525,573.5	6,949,477.7	25,583.0	148,276.9	Lophostemon suaveolens (swampbox)	10	120
-27.5783409	153.259131	2023-12-07	1246	-27.5784	153.2591	525,576.4	6,949,475.9	25,585.9	148,275.2	Lophostemon suaveolens (swampbox)	16	263
-27.5783791	153.259095	2023-12-07	1247	-27.5784	153.2591	525,576.6	6,949,474.9	25,586.1	148,274.2	Melaleuca quinquenervia	11	195
-27.5783943	153.259064	2023-12-07	1248	-27.5784	153.2591	525,572.1	6,949,475.1	25,581.6	148,274.4	Lophostemon suaveolens (swampbox)	13	156
-27.5784058	153.25909	2023-12-07	1249	-27.5784	153.2591	525,570.6	6,949,471.8	25,580.1	148,271.1	Lophostemon suaveolens (swampbox)	28	336
-27.5784171	153.259004	2023-12-07	1250	-27.5784	153.2591	525,570.4	6,949,470.1	25,579.9	148,269.3	Lophostemon suaveolens (swampbox)	32	384
-27.5784643	153.25901	2023-12-07	1251	-27.5784	153.2590	525,568.0	6,949,468.0	25,577.5	148,267.3	Melaleuca quinquenervia	18	347
-27.5784809	153.25907	2023-12-07	1252	-27.5785	153.2591	525,570.1	6,949,463.2	25,579.6	148,262.5	Lophostemon suaveolens (swampbox)	23	276
-27.5785225	153.259057	2023-12-07	1253	-27.5785	153.2590	525,566.8	6,949,461.9	25,576.3	148,261.2	Lophostemon suaveolens (swampbox)	12	144
-27.578464	153.258997	2023-12-07	1254	-27.5785	153.2590	525,565.9	6,949,461.8	25,575.4	148,261.1	Lophostemon suaveolens (swampbox)	4	48
-27.5784912	153.25903	2023-12-07	1255	-27.5785	153.2590	525,568.4	6,949,460.3	25,577.9	148,259.5	Lophostemon suaveolens (swampbox)	17	243
-27.5783774	153.2591	2023-12-07	1256	-27.5784	153.2592	525,579.3	6,949,474.4	25,588.8	148,273.7	Lophostemon suaveolens (swampbox)	17	204
-27.5783779	153.259134	2023-12-07	1257	-27.5784	153.2592	525,580.4	6,949,475.2	25,589.9	148,274.5	Lophostemon suaveolens (swampbox)	23	276
-27.5783696	153.259133	2023-12-07	1258	-27.5784	153.2592	525,579.1	6,949,477.3	25,588.6	148,276.6	Lophostemon suaveolens (swampbox)	8	96
-27.5783099	153.259126	2023-12-07	1259	-27.5783	153.2592	525,579.2	6,949,482.6	25,588.7	148,281.9	Lophostemon suaveolens (swampbox)	13	229
-27.5783467	153.25923	2023-12-07	1260	-27.5783	153.2593	525,589.8	6,949,483.2	25,599.2	148,282.5	Melaleuca quinquenervia	12	144
-27.578287	153.259192	2023-12-07	1261	-27.5783	153.2592	525,585.5	6,949,485.3	25,595.0	148,284.6	Lophostemon suaveolens (swampbox)	20.5	246
-27.5783178	153.259262	2023-12-07	1262	-27.5783	153.2593	525,592.6	6,949,479.6	25,602.0	148,278.9	Eucalyptus racemosa	21.5	258
-27.57837	153.259277	2023-12-07	1263	-27.5784	153.2593	525,591.8	6,949,476.6	25,601.3	148,275.9	Melaleuca quinquenervia	16	220
-27.5783143	153.259249	2023-12-07	1264	-27.5784	153.2593	525,590.7	6,949,477.2	25,600.2	148,276.5	Lophostemon suaveolens (swampbox)	14	168
-27.5783211	153.259263	2023-12-07	1265	-27.5784	153.2592	525,588.1	6,949,476.4	25,597.6	148,275.7	Melaleuca quinquenervia	14	168
-27.5783544	153.259159	2023-12-07	1266	-27.5784	153.2592	525,586.3	6,949,474.2	25,595.8	148,273.4	Lophostemon suaveolens (swampbox)	14	168
-27.5783867	153.25923	2023-12-07	1267	-27.5784	153.2593	525,589.3	6,949,473.4	25,598.8	148,272.7	Corymbia intermedia	28	336
-27.5783766	153.259242	2023-12-07	1268	-27.5784	153.2593	525,592.0	6,949,471.7	25,601.5	148,271.0	Lophostemon suaveolens (swampbox)	12	250
-27.578433	153.259297	2023-12-07	1269	-27.5785	153.2593	525,593.3	6,949,467.1	25,602.8	148,266.4	Lophostemon suaveolens (swampbox)	23	276
-27.5784728	153.259345	2023-12-07	1270	-27.5784	153.2594	525,600.1	6,949,468.4	25,609.6	148,267.7	Lophostemon suaveolens (swampbox)	21	252
-27.5784254	153.259342	2023-12-07	1271	-27.5784	153.2593	525,595.5	6,949,471.9	25,605.0	148,271.2	Melaleuca quinquenervia	14	168
-27.5784391	153.259305	2023-12-07	1272	-27.5784	153.2593	525,595.9	6,949,472.3	25,605.3	148,271.6	Lophostemon suaveolens (swampbox)	13	156
-27.578424	153.259298	2023-12-07	1273	-27.5784	153.2593	525,595.0	6,949,474.5	25,604.5	148,273.8	Eucalyptus racemosa	13	156
-27.5787705	153.259388	2023-12-07	1274	-27.5784	153.2593	525,594.1	6,949,474.0	25,603.6	148,273.3	Melaleuca quinquenervia	12	144
-27.5783405	153.259256	2023-12-07	1275	-27.5784	153.2593	525,594.6	6,949,477.9	25,604.1	148,277.2	Lophostemon suaveolens (swampbox)	13	156
-27.5783956	153.259309	2023-12-07	1276	-27.5784	153.2594	525,599.1	6,949,474.7	25,608.6	148,274.0	Melaleuca quinquenervia	14	239
-27.5783884	153.259375	2023-12-07	1277	-27.5784	153.2594	525,601.1	6,949,473.6	25,610.6	148,272.9	Lophostemon suaveolens (swampbox)	13	156
-27.5783471	153.259418	2023-12-07	1278	-27.5783	153.2594	525,604.3	6,949,478.4	25,613.8	148,277.6	Lophostemon suaveolens (swampbox)	24	288
-27.5783451	153.259359	2023-12-07	1279	-27.5783	153.2594	525,601.4	6,949,478.8	25,610.9	148,278.1	Eucalyptus racemosa	9	108
-27.5783573	153.259397	2023-12-07	1280	-27.5784	153.2594	525,600.9	6,949,477.8	25,610.4	148,277.1	Lophostemon suaveolens (swampbox)	10.5	126
-27.5783698	153.259406	2023-12-07	1281	-27.5784	153.2594	525,600.5	6,949,478.0	25,610.0	148,277.3	Lophostemon suaveolens (swampbox)	10	120
-27.5783378	153.259354	2023-12-07	1282	-27.5783	153.2594	525,599.1	6,949,479.0	25,608.6	148,278.3	Lophostemon suaveolens (swampbox)	13	156
-27.5783529	153.259333	2023-12-07	1283	-27.5783	153.2593	525,597.8	6,949,478.6	25,607.3	148,277.8	Lophostemon suaveolens (swampbox)	11	132
-27.5783125	153.259309	2023-12-07	1284	-27.5783	153.2593	525,597.3	6,949,479.8	25,606.7	148,279.1	Lophostemon suaveolens (swampbox)	8	96
-27.5783096	153.259355	2023-12-07	1285	-27.5783	153.2594	525,600.1	6,949,480.9	25,609.6	148,280.2	Lophostemon suaveolens (swampbox)	18	216
-27.5783568	153.259338	2023-12-07	1286	-27.5783	153.2594	525,599.4	6,949,482.1	25,608.9	148,281.4	Lophostemon suaveolens (swampbox)	11	132
-27.5783292	153.259321	2023-12-07	1287	-27.5783	153.2593	525,597.8	6,949,482.0	25,607.3	148,281.3	Lophostemon suaveolens (swampbox)	20	240
-27.5782824	153.259304	2023-12-07	1288	-27.5783	153.2593	525,597.7	6,949,484.3	25,607.2	148,283.6	Lophostemon suaveolens (swampbox)	13	204
-27.5782882	153.259323	2023-12-07	1289	-27.5783	153.2593	525,595.9	6,949,484.3	25,605.3	148,283.6	Lophostemon suaveolens (swampbox)	11	132

-27.5782574	153.259359	2023-12-07	1290	-27.5783	153.2594	525,599.9	6,949,486.4	25,609.4	148,285.6	Lophostemon suaveolens (swampbox)	19	228
-27.57824	153.259303	2023-12-07	1291	-27.5783	153.2593	525,594.6	6,949,488.3	25,604.1	148,287.6	Lophostemon suaveolens (swampbox)	13	156
-27.5782731	153.259553	2023-12-07	1292	-27.5783	153.2596	525,621.1	6,949,485.2	25,630.6	148,284.5	Lophostemon suaveolens (swampbox)	30	360
-27.5782781	153.259544	2023-12-07	1293	-27.5783	153.2596	525,621.8	6,949,483.6	25,631.3	148,282.9	Lophostemon suaveolens (swampbox)	11	132
-27.578298	153.259542	2023-12-07	1294	-27.5783	153.2596	525,622.7	6,949,484.5	25,632.2	148,283.8	Lophostemon suaveolens (swampbox)	16	192
-27.5782493	153.259569	2023-12-07	1295	-27.5783	153.2596	525,622.4	6,949,485.0	25,631.9	148,284.3	Lophostemon suaveolens (swampbox)	10	120
-27.5784253	153.259447	2023-12-07	1296	-27.5784	153.2595	525,612.7	6,949,468.8	25,622.2	148,268.1	Lophostemon suaveolens (swampbox)	23	276
-27.578428	153.259401	2023-12-07	1297	-27.5784	153.2594	525,607.2	6,949,468.0	25,616.7	148,267.3	Lophostemon suaveolens (swampbox)	23	276
-27.5785305	153.259293	2023-12-07	1298	-27.5786	153.2593	525,595.7	6,949,453.2	25,605.2	148,252.4	Lophostemon suaveolens (swampbox)	12	144
-27.5785469	153.259215	2023-12-07	1299	-27.5786	153.2592	525,584.7	6,949,450.8	25,594.2	148,250.1	Lophostemon suaveolens (swampbox)	36	432
-27.5785875	153.259182	2023-12-07	1300	-27.5786	153.2592	525,580.5	6,949,453.6	25,590.0	148,252.9	Lophostemon suaveolens (swampbox)	20	240
-27.5785944	153.25911	2023-12-07	1301	-27.5786	153.2591	525,577.4	6,949,453.2	25,586.8	148,252.5	Lophostemon suaveolens (swampbox)	11	132
-27.5785717	153.259121	2023-12-07	1302	-27.5786	153.2591	525,576.0	6,949,452.5	25,585.5	148,251.8	Melaleuca quinquenervia	10	120
-27.5785491	153.259111	2023-12-07	1303	-27.5786	153.2591	525,575.5	6,949,454.1	25,585.0	148,253.4	Melaleuca quinquenervia	10	120
-27.5785511	153.259102	2023-12-07	1304	-27.5786	153.2591	525,574.9	6,949,455.0	25,584.4	148,254.2	Lophostemon suaveolens (swampbox)	10.5	126
-27.5785161	153.259078	2023-12-07	1305	-27.5785	153.2591	525,570.2	6,949,456.3	25,579.6	148,255.6	Melaleuca quinquenervia	23	396
-27.5785128	153.259021	2023-12-07	1306	-27.5785	153.2591	525,568.9	6,949,458.7	25,578.3	148,258.0	Angophora woodsiana	20	240
-27.5785711	153.259093	2023-12-07	1307	-27.5786	153.2593	525,594.5	6,949,450.1	25,604.0	148,249.4	Lophostemon suaveolens (swampbox)	25	300
-27.5784335	153.259481	2023-12-07	1308	-27.5785	153.2596	525,619.1	6,949,467.0	25,628.6	148,266.3	Lophostemon suaveolens (swampbox)	10	120
-27.5784699	153.25952	2023-12-07	1309	-27.5785	153.2596	525,620.2	6,949,467.1	25,629.7	148,266.4	Lophostemon suaveolens (swampbox)	9	108
-27.5784505	153.259524	2023-12-07	1310	-27.5784	153.2596	525,619.5	6,949,468.9	25,629.0	148,268.2	Lophostemon suaveolens (swampbox)	10	120
-27.5784226	153.259556	2023-12-07	1311	-27.5784	153.2596	525,621.2	6,949,468.9	25,630.7	148,268.2	Lophostemon suaveolens (swampbox)	23	276
-27.5783905	153.259556	2023-12-07	1312	-27.5784	153.2596	525,622.1	6,949,470.3	25,631.6	148,269.6	Lophostemon suaveolens (swampbox)	11	132
-27.578405	153.259583	2023-12-07	1313	-27.5784	153.2596	525,623.1	6,949,470.2	25,632.6	148,269.4	Melaleuca quinquenervia	17	236
-27.5783992	153.259559	2023-12-07	1314	-27.5784	153.2596	525,623.3	6,949,468.6	25,632.8	148,267.9	Melaleuca quinquenervia	15	180
-27.578444	153.259546	2023-12-07	1315	-27.5784	153.2596	525,624.9	6,949,469.0	25,634.4	148,268.3	Melaleuca quinquenervia	10	120
-27.5784005	153.259595	2023-12-07	1316	-27.5784	153.2596	525,625.9	6,949,469.3	25,635.4	148,268.5	Melaleuca quinquenervia	10	120
-27.5784103	153.259579	2023-12-07	1317	-27.5784	153.2596	525,624.5	6,949,471.5	25,634.0	148,270.8	Melaleuca quinquenervia	14	252
-27.5784002	153.259574	2023-12-07	1318	-27.5784	153.2596	525,626.3	6,949,472.8	25,635.8	148,272.0	Angophora woodsiana	11	132
-27.5784085	153.259614	2023-12-07	1319	-27.5784	153.2596	525,626.2	6,949,473.2	25,635.7	148,272.5	Lophostemon suaveolens (swampbox)	9	108
-27.5784072	153.259585	2023-12-07	1320	-27.5784	153.2596	525,626.9	6,949,473.5	25,636.4	148,272.8	Lophostemon suaveolens (swampbox)	9	108
-27.5783725	153.259597	2023-12-07	1321	-27.5784	153.2596	525,627.5	6,949,475.2	25,637.0	148,274.4	Melaleuca quinquenervia	22	307
-27.5783541	153.259609	2023-12-07	1322	-27.5784	153.2597	525,628.0	6,949,475.5	25,637.5	148,274.8	Melaleuca quinquenervia	9	108
-27.5783146	153.259597	2023-12-07	1323	-27.5784	153.2596	525,627.0	6,949,475.9	25,636.5	148,275.2	Lophostemon suaveolens (swampbox)	9	108
-27.5783362	153.259647	2023-12-07	1324	-27.5784	153.2597	525,629.0	6,949,475.7	25,638.5	148,275.0	Melaleuca quinquenervia	12	144
-27.5783435	153.259642	2023-12-07	1325	-27.5784	153.2597	525,630.4	6,949,476.5	25,639.9	148,275.8	Melaleuca quinquenervia	12	144
-27.5783189	153.259675	2023-12-07	1326	-27.5784	153.2597	525,632.6	6,949,476.5	25,642.1	148,275.8	Lophostemon suaveolens (swampbox)	9	108
-27.5783336	153.25963	2023-12-07	1327	-27.5783	153.2597	525,630.2	6,949,480.5	25,639.7	148,279.8	Lophostemon suaveolens (swampbox)	12	144
-27.5783168	153.259633	2023-12-07	1328	-27.5783	153.2597	525,630.1	6,949,481.9	25,639.6	148,281.2	Eucalyptus melanophloia	10	120
-27.5783089	153.259697	2023-12-07	1329	-27.5783	153.2597	525,630.9	6,949,482.0	25,640.4	148,281.3	Melaleuca quinquenervia	23	276
-27.5782964	153.259694	2023-12-07	1330	-27.5783	153.2597	525,632.2	6,949,482.6	25,641.7	148,281.9	Melaleuca quinquenervia	17	204
-27.5782915	153.259726	2023-12-07	1331	-27.5783	153.2597	525,633.3	6,949,483.0	25,642.8	148,282.2	Melaleuca quinquenervia	11.5	138
-27.578321	153.259724	2023-12-07	1332	-27.5783	153.2597	525,635.1	6,949,481.9	25,644.6	148,281.1	Lophostemon suaveolens (swampbox)	10	120
-27.57833	153.259738	2023-12-07	1333	-27.5783	153.2597	525,635.8	6,949,479.9	25,645.3	148,279.2	Lophostemon suaveolens (swampbox)	10	120
-27.5783475	153.259753	2023-12-07	1334	-27.5784	153.2597	525,635.5	6,949,476.6	25,645.0	148,275.9	Eucalyptus tereticornis	23	276
-27.5782815	153.259728	2023-12-07	1335	-27.5783	153.2597	525,636.3	6,949,486.2	25,645.8	148,285.5	Lophostemon suaveolens (swampbox)	12	144
-27.5782753	153.259736	2023-12-07	1336	-27.5783	153.2598	525,639.0	6,949,485.7	25,648.5	148,285.0	Melaleuca quinquenervia	23	311
-27.5784048	153.259779	2023-12-07	1337	-27.5783	153.2598	525,646.6	6,949,478.9	25,656.1	148,278.1	Lophostemon suaveolens (swampbox)	10	120
-27.5783457	153.259911	2023-12-07	1338	-27.5783	153.2599	525,655.5	6,949,478.8	25,665.1	148,278.1	Eucalyptus microcorys	25	300
-27.5783446	153.259923	2023-12-07	1339	-27.5784	153.2600	525,659.9	6,949,478.0	25,669.4	148,277.3	Lophostemon suaveolens (swampbox)	11	132

-27.5783956	153.26002	2023-12-07	1340	-27.5784	153.2600	525,662.0	6,949,475.4	25,671.6	148,274.7	Eucalyptus microcorys	17	204	
-27.5783605	153.259985	2023-12-07	1341	-27.5784	153.2600	525,662.4	6,949,478.1	25,671.9	148,277.4	Eucalyptus microcorys	10.5	126	
-27.57835	153.259994	2023-12-07	1342	-27.5783	153.2600	525,664.3	6,949,478.7	25,673.8	148,277.9	Eucalyptus microcorys	25	300	
-27.5783721	153.2599	2023-12-07	1343	-27.5783	153.2599	525,655.6	6,949,486.7	25,665.1	148,286.0	Corymbia intermedia	38	456	
-27.5782956	153.259891	2023-12-07	1344	-27.5783	153.2600	525,658.0	6,949,485.7	25,667.5	148,285.0	Eucalyptus microcorys	25	300	
-27.5782695	153.259929	2023-12-07	1345	-27.5783	153.2600	525,661.4	6,949,484.6	25,670.9	148,283.9	Lophostemon confertus (brushbox)	36	432	
-27.5783398	153.260194	2023-12-07	1346	-27.5783	153.2602	525,684.0	6,949,479.9	25,693.5	148,279.2	Corymbia intermedia	20.5	246	
-27.5783864	153.260056	2023-12-07	1347	-27.5784	153.2600	525,665.4	6,949,474.0	25,674.9	148,273.3	Eucalyptus microcorys	23	276	
-27.5783972	153.260044	2023-12-07	1348	-27.5784	153.2601	525,669.0	6,949,475.2	25,678.5	148,274.4	Eucalyptus microcorys	22	264	
-27.5783841	153.26007	2023-12-07	1349	-27.5784	153.2601	525,670.6	6,949,474.5	25,680.1	148,273.7	Melaleuca quinquenervia	12	144	
-27.5783716	153.260079	2023-12-07	1350	-27.5784	153.2601	525,669.7	6,949,475.8	25,679.3	148,275.0	Melaleuca quinquenervia	10	120	
-27.578339	153.260027	2023-12-07	1351	-27.5783	153.2601	525,669.4	6,949,478.9	25,679.0	148,278.2	Eucalyptus racemosa	41	492	
-27.5784088	153.260092	2023-12-07	1352	-27.5784	153.2601	525,672.8	6,949,473.4	25,682.4	148,272.7	Eucalyptus racemosa	35	420	
-27.5784028	153.260118	2023-12-07	1353	-27.5784	153.2601	525,672.9	6,949,471.2	25,682.4	148,270.5	Corymbia intermedia	10	120	
-27.5784126	153.260139	2023-12-07	1354	-27.5784	153.2601	525,675.1	6,949,469.8	25,684.6	148,269.1	Corymbia intermedia	24	288	
-27.5784223	153.260123	2023-12-07	1355	-27.5784	153.2601	525,675.3	6,949,467.4	25,684.8	148,266.7	Corymbia intermedia	17	204	
-27.578417	153.260146	2023-12-07	1356	-27.5784	153.2602	525,679.5	6,949,467.1	25,689.0	148,266.3	Eucalyptus racemosa	26	312	
-27.5784079	153.260161	2023-12-07	1357	-27.5784	153.2602	525,680.1	6,949,473.7	25,689.6	148,273.0	Eucalyptus racemosa	29.5	354	
-27.5784007	153.260181	2023-12-07	1358	-27.5784	153.2602	525,681.0	6,949,474.1	25,690.5	148,273.4	Melaleuca quinquenervia	9	108	
-27.5784005	153.260167	2023-12-07	1359	-27.5784	153.2602	525,678.9	6,949,475.8	25,688.5	148,275.1	Melaleuca quinquenervia	10	120	
-27.5783544	153.260147	2023-12-07	1360	-27.5783	153.2602	525,677.4	6,949,478.9	25,686.9	148,278.2	Lophostemon suaveolens (swampbox)	10	120	
-27.5783336	153.260082	2023-12-07	1361	-27.5783	153.2602	525,677.2	6,949,479.2	25,686.7	148,278.5	Melaleuca quinquenervia	13	224	
-27.5783397	153.260144	2023-12-07	1362	-27.5783	153.2602	525,678.3	6,949,479.2	25,687.8	148,278.4	Lophostemon suaveolens (swampbox)	10	197	
-27.5783414	153.260198	2023-12-07	1363	-27.5784	153.2602	525,686.6	6,949,476.5	25,696.1	148,275.7	Eucalyptus racemosa	38	456	
-27.5783474	153.260192	2023-12-07	1364	-27.5784	153.2602	525,684.1	6,949,477.8	25,693.6	148,277.1	Lophostemon suaveolens (swampbox)	10	120	
-27.5783832	153.260239	2023-12-07	1365	-27.5784	153.2603	525,687.6	6,949,472.6	25,697.1	148,271.9	Corymbia intermedia	37.5	450	
-27.5784488	153.260258	2023-12-07	1366	-27.5784	153.2603	525,688.1	6,949,469.5	25,697.6	148,268.8	Eucalyptus microcorys	10	120	
-27.5784502	153.260229	2023-12-07	1367	-27.5785	153.2602	525,686.3	6,949,465.3	25,695.8	148,264.6	Eucalyptus microcorys	12	144	
-27.5784032	153.260291	2023-12-07	1368	-27.5784	153.2603	525,691.8	6,949,469.7	25,701.3	148,269.0	Melaleuca quinquenervia	10	120	
-27.5783744	153.260257	2023-12-07	1369	-27.5784	153.2603	525,693.6	6,949,473.9	25,703.1	148,273.2	Corymbia intermedia	25	300	
-27.5784047	153.26028	2023-12-07	1370	-27.5784	153.2603	525,694.6	6,949,473.2	25,704.1	148,272.4	Corymbia intermedia	10	120	
-27.578382	153.260381	2023-12-07	1371	-27.5784	153.2604	525,699.3	6,949,474.7	25,708.9	148,274.0	Corymbia intermedia	12	144	
-27.578365	153.260423	2023-12-07	1372	-27.5784	153.2604	525,704.5	6,949,472.7	25,714.0	148,272.0	Corymbia intermedia	27	324	
-27.5783956	153.260415	2023-12-07	1373	-27.5784	153.2604	525,705.8	6,949,472.0	25,715.3	148,271.3	Melaleuca quinquenervia	5	60	
-27.5783946	153.260406	2023-12-07	1374	-27.5784	153.2605	525,707.7	6,949,470.8	25,717.2	148,270.1	Eucalyptus racemosa	15	180	
-27.5786904	153.260311	2023-12-07	1375	-27.5788	153.2603	525,695.4	6,949,428.3	25,704.9	148,227.6	Eucalyptus tindaliae	53	636	
-27.5789022	153.26034	2023-12-07	1376	-27.5789	153.2603	525,695.9	6,949,417.6	25,705.4	148,216.8	Corymbia intermedia	20	240	
-27.5789475	153.26029	2023-12-07	1377	-27.5789	153.2603	525,693.2	6,949,413.0	25,702.7	148,212.2	Eucalyptus racemosa	82	984	
-27.5788894	153.260251	2023-12-07	1378	-27.5789	153.2603	525,686.8	6,949,416.7	25,696.4	148,215.9	Corymbia intermedia	20	240	Hollows
-27.578894	153.260244	2023-12-07	1379	-27.5789	153.2603	525,689.7	6,949,420.4	25,699.3	148,219.7	Corymbia intermedia	10	120	
-27.5787801	153.260156	2023-12-07	1380	-27.5788	153.2601	525,675.2	6,949,431.8	25,684.8	148,231.0	Eucalyptus racemosa	23	276	
-27.5787191	153.260227	2023-12-07	1381	-27.5787	153.2602	525,685.7	6,949,439.6	25,695.2	148,238.8	Corymbia intermedia	32	384	
-27.5786238	153.26022	2023-12-07	1382	-27.5786	153.2602	525,685.0	6,949,446.2	25,694.5	148,245.4	Corymbia intermedia	50	600	
-27.5785713	153.260103	2023-12-07	1383	-27.5786	153.2601	525,675.5	6,949,455.3	25,685.1	148,254.6	Angophora woodsiana	20	357	
-27.5785581	153.26008	2023-12-07	1384	-27.5786	153.2601	525,674.6	6,949,455.2	25,684.1	148,254.5	Melaleuca quinquenervia	10	120	
-27.5786	153.260078	2023-12-07	1385	-27.5786	153.2601	525,672.0	6,949,449.6	25,681.5	148,248.8	Lophostemon confertus (brushbox)	32	384	
-27.5785323	153.259977	2023-12-07	1386	-27.5786	153.2601	525,667.3	6,949,454.2	25,676.8	148,253.4	Corymbia intermedia	28	336	
-27.5784997	153.260064	2023-12-07	1387	-27.5785	153.2600	525,665.8	6,949,461.8	25,675.3	148,261.1	Corymbia intermedia	28	336	
-27.5784994	153.259973	2023-12-07	1388	-27.5785	153.2600	525,662.0	6,949,460.4	25,671.5	148,259.6	Lophostemon confertus (brushbox)	23	382	
-27.5785046	153.259977	2023-12-07	1389	-27.5785	153.2600	525,658.7	6,949,458.7	25,668.2	148,258.0	Corymbia intermedia	18	216	

-27.578521	153.25993	2023-12-07	1390	-27.5785	153.2600	525,659.1	6,949,457.5	25,668.6	148,256.8	Corymbia intermedia		40	480
-27.578589	153.259948	2023-12-07	1391	-27.5786	153.2599	525,656.0	6,949,453.5	25,665.5	148,252.8	Eucalyptus racemosa		44	528
-27.5785867	153.259938	2023-12-07	1392	-27.5785	153.2600	525,659.2	6,949,457.5	25,668.7	148,256.8	Corymbia intermedia		38	456
-27.5785092	153.259903	2023-12-07	1393	-27.5785	153.2600	525,658.7	6,949,458.8	25,668.2	148,258.0	Corymbia intermedia		22	264
-27.5785027	153.259929	2023-12-07	1394	-27.5785	153.2599	525,656.9	6,949,463.1	25,666.4	148,262.3	Corymbia intermedia		24	288
-27.5784795	153.25995	2023-12-07	1395	-27.5785	153.2600	525,660.4	6,949,465.9	25,670.0	148,265.2	Corymbia intermedia		12	144
-27.5786063	153.260005	2023-12-07	1396	-27.5786	153.2600	525,666.8	6,949,451.9	25,676.3	148,251.2	Eucalyptus racemosa		26	312
-27.5786382	153.260035	2023-12-07	1397	-27.5786	153.2600	525,663.9	6,949,450.7	25,673.4	148,249.9	Corymbia intermedia		30	360
-27.5786116	153.260028	2023-12-07	1398	-27.5786	153.2601	525,667.6	6,949,449.0	25,677.1	148,248.3	Eucalyptus tindaliae		28	336
-27.5786947	153.260047	2023-12-07	1399	-27.5787	153.2601	525,671.1	6,949,442.1	25,680.7	148,241.3	Corymbia intermedia		36	432
-27.5786936	153.260054	2023-12-07	1400	-27.5787	153.2601	525,667.9	6,949,441.7	25,677.4	148,241.0	Lophostemon confertus (brushbox)		25	300
-27.5787742	153.260057	2023-12-07	1401	-27.5788	153.2600	525,666.5	6,949,427.7	25,676.0	148,226.9	Eucalyptus tindaliae		30	360
-27.5788346	153.260079	2023-12-07	1402	-27.5788	153.2601	525,670.3	6,949,424.2	25,679.8	148,223.5	Corymbia intermedia		30	360
-27.5787905	153.260008	2023-12-07	1403	-27.5788	153.2600	525,661.8	6,949,432.4	25,671.3	148,231.6	Lophostemon confertus (brushbox)		34	505
-27.578747	153.259964	2023-12-07	1404	-27.5787	153.2600	525,662.9	6,949,435.6	25,672.4	148,234.9	Lophostemon confertus (brushbox)		32	406
-27.5787191	153.259883	2023-12-07	1405	-27.5787	153.2599	525,656.3	6,949,439.1	25,665.8	148,238.4	Eucalyptus microcorys		28	353
-27.5787354	153.259902	2023-12-07	1406	-27.5787	153.2599	525,654.2	6,949,437.1	25,663.8	148,236.4	Eucalyptus racemosa		38	456
-27.5787545	153.259925	2023-12-07	1407	-27.5788	153.2600	525,657.7	6,949,431.2	25,667.2	148,230.4	Angophora woodsiana		10	402
-27.5787596	153.259889	2023-12-07	1408	-27.5787	153.2599	525,650.9	6,949,435.6	25,660.4	148,234.8	Eucalyptus racemosa		20	240
-27.5786464	153.259862	2023-12-07	1409	-27.5787	153.2599	525,649.2	6,949,444.4	25,658.7	148,243.7	Lophostemon suaveolens (swampbox)		40	480
-27.5785997	153.259803	2023-12-07	1410	-27.5786	153.2599	525,647.9	6,949,451.0	25,657.4	148,250.2	Lophostemon suaveolens (swampbox)		38	456
-27.5785845	153.259796	2023-12-07	1411	-27.5786	153.2598	525,639.9	6,949,452.3	25,649.4	148,251.6	Lophostemon suaveolens (swampbox)		14	168
-27.578728	153.259825	2023-12-07	1412	-27.5787	153.2598	525,644.4	6,949,440.2	25,653.9	148,239.5	Melaleuca quinquenervia		26	312
-27.5786935	153.259771	2023-12-07	1413	-27.5787	153.2598	525,645.8	6,949,439.0	25,655.3	148,238.3	Eucalyptus racemosa		27	324
-27.5787258	153.259821	2023-12-07	1414	-27.5787	153.2598	525,646.6	6,949,436.6	25,656.1	148,235.8	Angophora woodsiana		10	120
-27.5787279	153.259816	2023-12-07	1415	-27.5787	153.2598	525,647.0	6,949,435.1	25,656.5	148,234.4	Corymbia intermedia		24	288
-27.578739	153.259816	2023-12-07	1416	-27.5788	153.2598	525,646.0	6,949,433.6	25,655.5	148,232.9	Melaleuca quinquenervia		10	120
-27.5787832	153.259829	2023-12-07	1417	-27.5788	153.2598	525,645.3	6,949,432.8	25,654.8	148,232.1	Melaleuca quinquenervia		8	96
-27.5787788	153.259764	2023-12-07	1418	-27.5787	153.2598	525,641.0	6,949,434.9	25,650.5	148,234.1	Corymbia intermedia		13	146
-27.5787145	153.259731	2023-12-07	1419	-27.5787	153.2598	525,638.0	6,949,442.1	25,647.5	148,241.4	Angophora woodsiana		23	276
-27.5787399	153.259751	2023-12-07	1420	-27.5786	153.2598	525,638.7	6,949,446.0	25,648.2	148,245.3	Lophostemon suaveolens (swampbox)		40	526
-27.5786197	153.259769	2023-12-07	1421	-27.5786	153.2597	525,636.8	6,949,446.6	25,646.3	148,245.9	Lophostemon confertus (brushbox)		38	628
-27.5787151	153.259686	2023-12-07	1422	-27.5786	153.2597	525,635.8	6,949,445.6	25,645.3	148,244.9	Angophora woodsiana		28	336
-27.5786768	153.259672	2023-12-07	1423	-27.5787	153.2597	525,630.1	6,949,443.8	25,639.6	148,243.1	Angophora woodsiana		38	456
-27.5786681	153.259577	2023-12-07	1424	-27.5787	153.2596	525,626.6	6,949,443.2	25,636.1	148,242.5	Corymbia intermedia		12	144
-27.5787051	153.259645	2023-12-07	1425	-27.5787	153.2596	525,626.7	6,949,441.6	25,636.2	148,240.8	Lophostemon suaveolens (swampbox)		11	132
-27.5787445	153.259587	2023-12-07	1426	-27.5787	153.2596	525,625.8	6,949,439.0	25,635.3	148,238.2	Lophostemon suaveolens (swampbox)		23	276
-27.5787156	153.25959	2023-12-07	1427	-27.5787	153.2596	525,623.0	6,949,438.5	25,632.5	148,237.8	Lophostemon suaveolens (swampbox)		11	132
-27.5787114	153.259563	2023-12-07	1428	-27.5787	153.2596	525,623.2	6,949,439.0	25,632.7	148,238.3	Lophostemon confertus (brushbox)		10	120
-27.5787482	153.259582	2023-12-07	1429	-27.5787	153.2596	525,622.0	6,949,439.2	25,631.5	148,238.5	Lophostemon suaveolens (swampbox)		32	435
-27.5787328	153.259558	2023-12-07	1430	-27.5787	153.2596	525,620.3	6,949,438.6	25,629.8	148,237.9	Lophostemon confertus (brushbox)		32	384
-27.5788505	153.259804	2023-12-07	1431	-27.5788	153.2598	525,642.8	6,949,428.1	25,652.3	148,227.4	Lophostemon suaveolens (swampbox)		14	150
-27.5787923	153.25978	2023-12-07	1432	-27.5788	153.2598	525,644.7	6,949,427.2	25,654.2	148,226.5	Lophostemon suaveolens (swampbox)		16	192
-27.5788533	153.259835	2023-12-07	1433	-27.5788	153.2598	525,645.9	6,949,426.0	25,655.4	148,225.2	Eucalyptus racemosa		28	336
-27.5788093	153.25987	2023-12-07	1434	-27.5788	153.2599	525,648.4	6,949,426.8	25,657.9	148,226.0	Eucalyptus racemosa		24	288
-27.578909	153.259931	2023-12-07	1435	-27.5789	153.2599	525,653.9	6,949,416.7	25,663.4	148,215.9	Eucalyptus racemosa		10	120
-27.5789958	153.259919	2023-12-07	1436	-27.5790	153.2599	525,655.3	6,949,404.4	25,664.8	148,203.7	Corymbia intermedia		44	528
-27.5790625	153.26003	2023-12-07	1437	-27.5791	153.2601	525,667.6	6,949,399.5	25,677.1	148,198.7	Eucalyptus racemosa		40	480
-27.5790355	153.260048	2023-12-07	1438	-27.5791	153.2601	525,669.0	6,949,399.2	25,678.5	148,198.5	Eucalyptus racemosa		31	372
-27.5789642	153.260233	2023-12-07	1439	-27.5789	153.2602	525,681.4	6,949,412.7	25,690.9	148,211.9	Corymbia intermedia		32	384

-27.5791027	153.260284	2023-12-07	1440	-27.5791	153.2603	525,688.6	6,949,395.4	25,698.1	148,194.6	Angophora woodsiana	50	600
-27.5791012	153.260159	2023-12-07	1441	-27.5791	153.2602	525,683.1	6,949,396.9	25,692.7	148,196.1	Eucalyptus tindaliae	50	600
-27.5790713	153.260169	2023-12-07	1442	-27.5791	153.2602	525,679.2	6,949,398.2	25,688.7	148,197.4	Eucalyptus racemosa	22	264
-27.5790648	153.259816	2023-12-07	1443	-27.5790	153.2598	525,646.4	6,949,404.2	25,655.9	148,203.5	Eucalyptus tindaliae	42	696
-27.5790216	153.259769	2023-12-07	1444	-27.5790	153.2598	525,644.5	6,949,406.3	25,654.0	148,205.5	Eucalyptus tindaliae	12	144
-27.5790076	153.259813	2023-12-07	1445	-27.5790	153.2598	525,645.0	6,949,407.0	25,654.5	148,206.3	Lophostemon suaveolens (swampbox)	9	108
-27.579013	153.259755	2023-12-07	1446	-27.5790	153.2598	525,643.7	6,949,407.9	25,653.2	148,207.2	Corymbia intermedia	46	552
-27.5789642	153.259832	2023-12-07	1447	-27.5790	153.2599	525,650.2	6,949,411.3	25,659.7	148,210.5	Melaleuca quinquenervia	9	108
-27.5789306	153.259807	2023-12-07	1448	-27.5789	153.2598	525,641.9	6,949,413.4	25,651.4	148,212.6	Eucalyptus tindaliae	24	360
-27.5790253	153.259797	2023-12-07	1449	-27.5790	153.2598	525,639.7	6,949,406.2	25,649.2	148,205.4	Angophora woodsiana	25	300
-27.5790507	153.259787	2023-12-07	1450	-27.5790	153.2598	525,640.8	6,949,403.9	25,650.3	148,203.1	Eucalyptus microcorys	31	372
-27.5790409	153.259692	2023-12-07	1451	-27.5790	153.2597	525,633.6	6,949,404.3	25,643.1	148,203.5	Angophora woodsiana	24	288
-27.5789022	153.25966	2023-12-07	1452	-27.5789	153.2597	525,633.3	6,949,416.9	25,642.8	148,216.2	Eucalyptus microcorys	42	504
-27.5788856	153.259701	2023-12-07	1453	-27.5789	153.2598	525,638.2	6,949,419.4	25,647.7	148,218.7	Eucalyptus microcorys	36	432
-27.5788738	153.259732	2023-12-07	1454	-27.5789	153.2598	525,638.8	6,949,421.8	25,648.3	148,221.1	Eucalyptus tindaliae	20	240
-27.5788399	153.259702	2023-12-07	1455	-27.5788	153.2597	525,636.0	6,949,425.5	25,645.5	148,224.8	Lophostemon suaveolens (swampbox)	10	120
-27.5788836	153.259631	2023-12-07	1456	-27.5789	153.2596	525,626.3	6,949,420.0	25,635.8	148,219.3	Eucalyptus microcorys	74	888
-27.578988	153.25959	2023-12-07	1457	-27.5790	153.2596	525,624.6	6,949,408.7	25,634.1	148,207.9	Eucalyptus tindaliae	48	880
-27.5787371	153.259601	2023-12-07	1458	-27.5787	153.2597	525,627.7	6,949,436.7	25,637.2	148,236.0	Lophostemon suaveolens (swampbox)	20	240
-27.578739	153.259693	2023-12-07	1459	-27.5787	153.2597	525,628.4	6,949,435.7	25,637.9	148,235.0	Lophostemon suaveolens (swampbox)	13	166
-27.5787243	153.259579	2023-12-07	1460	-27.5788	153.2596	525,622.5	6,949,432.8	25,632.0	148,232.0	Lophostemon suaveolens (swampbox)	11	366
-27.5787616	153.259547	2023-12-07	1461	-27.5788	153.2596	525,620.1	6,949,433.4	25,629.6	148,232.7	Lophostemon suaveolens (swampbox)	11	178
-27.5787283	153.259571	2023-12-07	1462	-27.5787	153.2596	525,620.9	6,949,435.0	25,630.4	148,234.2	Lophostemon suaveolens (swampbox)	11	178
-27.5787415	153.259543	2023-12-07	1463	-27.5787	153.2596	525,619.1	6,949,435.5	25,628.6	148,234.8	Lophostemon suaveolens (swampbox)	15	180
-27.5787457	153.259535	2023-12-07	1464	-27.5787	153.2595	525,616.7	6,949,435.9	25,626.2	148,235.1	Lophostemon suaveolens (swampbox)	12	144
-27.5787419	153.259526	2023-12-07	1465	-27.5787	153.2595	525,616.5	6,949,436.5	25,626.0	148,235.8	Lophostemon suaveolens (swampbox)	14	168
-27.5787377	153.259545	2023-12-07	1466	-27.5787	153.2595	525,614.9	6,949,436.3	25,624.4	148,235.5	Lophostemon suaveolens (swampbox)	16	182
-27.5787026	153.259473	2023-12-07	1467	-27.5787	153.2595	525,611.7	6,949,438.3	25,621.1	148,237.6	Lophostemon suaveolens (swampbox)	11	132
-27.5787138	153.259464	2023-12-07	1468	-27.5787	153.2594	525,607.2	6,949,437.6	25,616.7	148,236.8	Lophostemon suaveolens (swampbox)	10	124
-27.5787424	153.259451	2023-12-07	1469	-27.5787	153.2594	525,605.8	6,949,437.0	25,615.3	148,236.2	Lophostemon suaveolens (swampbox)	10	120
-27.5787806	153.259388	2023-12-07	1470	-27.5788	153.2594	525,601.1	6,949,432.3	25,610.6	148,231.6	Lophostemon suaveolens (swampbox)	12	144
-27.5788097	153.259422	2023-12-07	1471	-27.5788	153.2594	525,604.7	6,949,425.0	25,614.2	148,224.3	Lophostemon suaveolens (swampbox)	9	108
-27.5788428	153.259403	2023-12-07	1472	-27.5788	153.2594	525,604.9	6,949,424.0	25,614.4	148,223.3	Lophostemon confertus (brushbox)	18	216
-27.5788309	153.259447	2023-12-07	1473	-27.5789	153.2594	525,607.4	6,949,422.1	25,616.9	148,221.3	Lophostemon confertus (brushbox)	44	528
-27.578847	153.259426	2023-12-07	1474	-27.5789	153.2594	525,604.1	6,949,421.7	25,613.6	148,221.0	Eucalyptus microcorys	32	384
-27.57878	153.259436	2023-12-07	1475	-27.5788	153.2594	525,607.5	6,949,429.2	25,617.0	148,228.5	Eucalyptus microcorys	12	144
-27.5787457	153.259451	2023-12-07	1476	-27.5788	153.2595	525,608.3	6,949,432.5	25,617.8	148,231.8	Lophostemon suaveolens (swampbox)	9	108
-27.5787494	153.259509	2023-12-07	1477	-27.5788	153.2595	525,613.2	6,949,428.9	25,622.7	148,228.2	Angophora woodsiana	50	600
-27.5787888	153.259498	2023-12-07	1478	-27.5788	153.2595	525,611.4	6,949,428.1	25,620.9	148,227.4	Lophostemon suaveolens (swampbox)	9	108
-27.5787861	153.259487	2023-12-07	1479	-27.5788	153.2595	525,610.5	6,949,427.2	25,620.0	148,226.4	Angophora woodsiana	14	150
-27.5788179	153.259495	2023-12-07	1480	-27.5788	153.2595	525,611.1	6,949,425.2	25,620.6	148,224.5	Angophora woodsiana	9	108
-27.5788204	153.259534	2023-12-07	1481	-27.5788	153.2595	525,614.6	6,949,428.1	25,624.1	148,227.3	Corymbia intermedia	30	360
-27.5787542	153.259531	2023-12-07	1482	-27.5788	153.2595	525,617.7	6,949,428.1	25,627.2	148,227.4	Lophostemon suaveolens (swampbox)	9	108
-27.5788628	153.259526	2023-12-07	1483	-27.5788	153.2595	525,616.8	6,949,423.5	25,626.3	148,222.7	Lophostemon suaveolens (swampbox)	10	120
-27.5788362	153.259537	2023-12-07	1484	-27.5788	153.2595	525,615.0	6,949,423.9	25,624.5	148,223.2	Eucalptus robusta	10	120
-27.5788308	153.25954	2023-12-07	1485	-27.5788	153.2595	525,615.6	6,949,423.2	25,625.1	148,222.5	Eucalptus robusta	13	156
-27.5788615	153.259583	2023-12-07	1486	-27.5789	153.2596	525,619.6	6,949,422.0	25,629.1	148,221.3	Lophostemon suaveolens (swampbox)	30	360
-27.5788519	153.259553	2023-12-07	1487	-27.5788	153.2596	525,620.0	6,949,424.4	25,629.5	148,223.7	Lophostemon suaveolens (swampbox)	10	120
-27.5788704	153.25949	2023-12-07	1488	-27.5789	153.2595	525,610.8	6,949,420.3	25,620.3	148,219.6	Lophostemon suaveolens (swampbox)	16	192
-27.5789084	153.259474	2023-12-07	1489	-27.5789	153.2594	525,607.3	6,949,416.7	25,616.8	148,215.9	Eucalptus robusta	10	120

-27.5788759	153.259392	2023-12-07	1490	-27.5789	153.2594	525,601.2	6,949,422.0	25,610.7	148,221.2	Lophostemon confertus (brushbox)	38	456
-27.5789014	153.259368	2023-12-07	1491	-27.5789	153.2594	525,599.8	6,949,419.0	25,609.3	148,218.2	Lophostemon confertus (brushbox)	37	444
-27.5789598	153.259339	2023-12-07	1492	-27.5789	153.2594	525,599.5	6,949,414.2	25,609.0	148,213.5	Lophostemon suaveolens (swampbox)	36	432
-27.5788916	153.259327	2023-12-07	1493	-27.5789	153.2593	525,594.5	6,949,420.8	25,604.0	148,220.0	Corymbia intermedia	34	408
-27.5788643	153.259314	2023-12-07	1494	-27.5789	153.2593	525,591.1	6,949,420.8	25,600.6	148,220.1	Melaleuca quinquenervia	10	170
-27.5788137	153.259253	2023-12-07	1495	-27.5788	153.2593	525,588.2	6,949,424.7	25,597.7	148,224.0	Corymbia intermedia	20	240
-27.5789237	153.259186	2023-12-07	1496	-27.5789	153.2592	525,582.0	6,949,417.7	25,591.5	148,217.0	Melaleuca quinquenervia	20	240
-27.5789808	153.259114	2023-12-07	1497	-27.5790	153.2591	525,575.6	6,949,409.8	25,585.1	148,209.0	Lophostemon suaveolens (swampbox)	10	120
-27.5789739	153.25912	2023-12-07	1498	-27.5790	153.2591	525,575.1	6,949,408.8	25,584.6	148,208.0	Lophostemon suaveolens (swampbox)	10	120
-27.5789644	153.259101	2023-12-07	1499	-27.5790	153.2591	525,570.6	6,949,404.1	25,580.0	148,203.3	Eucalyptus tereticornis	47	564
-27.5790313	153.259046	2023-12-07	1500	-27.5790	153.2591	525,571.8	6,949,403.6	25,581.3	148,202.9	Lophostemon suaveolens (swampbox)	10	120
-27.5790411	153.259086	2023-12-07	1501	-27.5790	153.2591	525,572.2	6,949,402.7	25,581.6	148,201.9	Corymbia intermedia	25	300
-27.5790435	153.259084	2023-12-07	1502	-27.5790	153.2591	525,574.5	6,949,402.5	25,584.0	148,201.7	Corymbia intermedia	36	432
-27.5791491	153.259164	2023-12-07	1503	-27.5791	153.2592	525,578.3	6,949,392.5	25,587.8	148,191.8	Lophostemon suaveolens (swampbox)	13	204
-27.579141	153.259138	2023-12-07	1504	-27.5791	153.2591	525,577.6	6,949,392.4	25,587.1	148,191.6	Lophostemon suaveolens (swampbox)	10	120
-27.579194	153.259137	2023-12-07	1505	-27.5792	153.2591	525,575.7	6,949,388.5	25,585.2	148,187.8	Lophostemon suaveolens (swampbox)	21	252
-27.5794099	153.258987	2023-12-07	1506	-27.5794	153.2590	525,561.1	6,949,361.1	25,570.6	148,160.4	Melaleuca quinquenervia	15	180
-27.5794347	153.258992	2023-12-07	1507	-27.5794	153.2590	525,563.8	6,949,360.1	25,573.3	148,159.3	Corymbia trachyphloia	13	156
-27.5794347	153.259009	2023-12-07	1508	-27.5794	153.2590	525,565.1	6,949,360.8	25,574.6	148,160.1	Corymbia intermedia	11	132
-27.5795013	153.259003	2023-12-07	1509	-27.5795	153.2590	525,566.5	6,949,350.7	25,575.9	148,149.9	Lophostemon suaveolens (swampbox)	20	268
-27.5795804	153.259	2023-12-07	1510	-27.5796	153.2590	525,564.0	6,949,342.0	25,573.5	148,141.3	Corymbia intermedia	50	888
-27.579578	153.259041	2023-12-07	1511	-27.5796	153.2590	525,567.8	6,949,343.3	25,577.2	148,142.5	Lophostemon confertus (brushbox)	44	528
-27.5795475	153.259119	2023-12-07	1512	-27.5796	153.2591	525,576.3	6,949,343.8	25,585.8	148,143.0	Corymbia trachyphloia	28	492
-27.579586	153.259187	2023-12-07	1513	-27.5796	153.2592	525,579.3	6,949,343.2	25,588.8	148,142.4	Corymbia trachyphloia	10	120
-27.5796012	153.259172	2023-12-07	1514	-27.5796	153.2592	525,578.4	6,949,340.6	25,587.9	148,139.8	Corymbia intermedia	11	132
-27.5796228	153.259181	2023-12-07	1515	-27.5796	153.2592	525,579.8	6,949,339.0	25,589.3	148,138.2	Corymbia trachyphloia	19	228
-27.5795914	153.259192	2023-12-07	1516	-27.5796	153.2592	525,582.8	6,949,339.9	25,592.3	148,139.1	Eucalyptus tindaliae	29	348
-27.5795758	153.259187	2023-12-07	1517	-27.5796	153.2592	525,582.8	6,949,340.9	25,592.3	148,140.1	Eucalyptus tindaliae	32	384
-27.5795778	153.259301	2023-12-07	1518	-27.5796	153.2593	525,590.9	6,949,338.9	25,600.4	148,138.1	Corymbia intermedia	40	480
-27.5796259	153.25935	2023-12-07	1519	-27.5796	153.2594	525,599.8	6,949,337.6	25,609.3	148,136.8	Corymbia intermedia	38	680
-27.579612	153.259387	2023-12-07	1520	-27.5796	153.2594	525,601.9	6,949,338.8	25,611.4	148,138.0	Corymbia intermedia	41	492
-27.5796483	153.259715	2023-12-07	1521	-27.5797	153.2597	525,634.3	6,949,332.8	25,643.8	148,132.0	Eucalyptus tindaliae	40	662
-27.5796693	153.259808	2023-12-07	1522	-27.5797	153.2598	525,641.7	6,949,329.0	25,651.2	148,128.2	Angophora woodsiana	17	204
-27.5796961	153.259896	2023-12-07	1523	-27.5797	153.2599	525,651.1	6,949,329.1	25,660.6	148,128.3	Eucalyptus tindaliae	24	375
-27.5797098	153.259893	2023-12-07	1524	-27.5797	153.2599	525,652.7	6,949,328.9	25,662.2	148,128.1	Eucalyptus tindaliae	30	509
-27.5796801	153.259953	2023-12-07	1525	-27.5797	153.2600	525,657.6	6,949,330.4	25,667.1	148,129.6	Corymbia trachyphloia	45	540
-27.579713	153.259972	2023-12-07	1526	-27.5797	153.2600	525,658.7	6,949,328.5	25,668.2	148,127.8	Corymbia trachyphloia	11	132
-27.5797332	153.260003	2023-12-07	1527	-27.5797	153.2600	525,664.2	6,949,327.3	25,673.7	148,126.6	Corymbia trachyphloia	11	132
-27.5797261	153.259973	2023-12-07	1528	-27.5797	153.2600	525,665.8	6,949,327.9	25,675.3	148,127.1	Corymbia intermedia	32	495
-27.5797637	153.260045	2023-12-07	1529	-27.5797	153.2601	525,668.8	6,949,326.4	25,678.3	148,125.6	Angophora woodsiana	17	204
-27.5797503	153.260072	2023-12-07	1530	-27.5797	153.2601	525,669.8	6,949,326.7	25,679.3	148,125.9	Angophora woodsiana	10	120
-27.5797532	153.260079	2023-12-07	1531	-27.5797	153.2601	525,671.7	6,949,325.2	25,681.2	148,124.4	Eucalyptus tindaliae	32	384
-27.5797529	153.260117	2023-12-07	1532	-27.5797	153.2601	525,673.3	6,949,325.0	25,682.8	148,124.2	Angophora woodsiana	11	132
-27.5797758	153.260092	2023-12-07	1533	-27.5797	153.2601	525,674.7	6,949,323.4	25,684.2	148,122.7	Angophora woodsiana	11	132
-27.5797533	153.260126	2023-12-07	1534	-27.5797	153.2601	525,675.3	6,949,324.9	25,684.9	148,124.2	Angophora woodsiana	13	156
-27.5797155	153.260061	2023-12-07	1535	-27.5797	153.2601	525,668.5	6,949,328.7	25,678.1	148,127.9	Eucalyptus tindaliae	24	288
-27.5797284	153.260098	2023-12-07	1536	-27.5797	153.2601	525,672.2	6,949,329.2	25,681.7	148,128.4	Angophora woodsiana	10	120
-27.5797499	153.26016	2023-12-07	1537	-27.5797	153.2602	525,679.3	6,949,323.1	25,688.8	148,122.3	Corymbia intermedia	19	228
-27.5797717	153.260203	2023-12-07	1538	-27.5798	153.2602	525,683.0	6,949,321.1	25,692.6	148,120.3	Eucalyptus racemosa	48	576
-27.5797897	153.260231	2023-12-07	1539	-27.5798	153.2602	525,683.7	6,949,320.3	25,693.2	148,119.5	Eucalyptus tindaliae	11	132

-27.5797577	153.260204	2023-12-07	1540	-27.5798	153.2602	525,683.8	6,949,322.1	25,693.3	148,121.3	Angophora woodsiana	20	240	
-27.5797813	153.260248	2023-12-07	1541	-27.5798	153.2603	525,687.1	6,949,320.7	25,696.6	148,119.9	Angophora woodsiana	40	475	
-27.5797442	153.260323	2023-12-07	1542	-27.5798	153.2603	525,693.9	6,949,319.7	25,703.4	148,118.9	Angophora woodsiana	43	516	
-27.579774	153.260328	2023-12-07	1543	-27.5798	153.2604	525,696.5	6,949,320.8	25,706.0	148,120.0	Corymbia intermedia	11	132	
-27.5797827	153.260345	2023-12-07	1544	-27.5798	153.2603	525,695.4	6,949,322.2	25,705.0	148,121.5	Angophora woodsiana	11	132	
-27.5797857	153.260423	2023-12-07	1545	-27.5798	153.2604	525,701.6	6,949,319.7	25,711.2	148,118.9	Angophora woodsiana	26	349	
-27.5798142	153.260507	2023-12-07	1546	-27.5797	153.2605	525,711.8	6,949,324.0	25,721.4	148,123.3	Angophora woodsiana	10	120	
-27.5797823	153.260512	2023-12-07	1547	-27.5797	153.2605	525,714.2	6,949,323.2	25,723.7	148,122.4	Angophora woodsiana	36	460	
-27.5795328	153.26025	2023-12-07	1548	-27.5795	153.2602	525,683.7	6,949,349.1	25,693.2	148,148.3	Angophora woodsiana	38	456	
-27.5795091	153.260197	2023-12-07	1549	-27.5795	153.2602	525,682.2	6,949,347.2	25,691.7	148,146.4	Angophora woodsiana	21	280	
-27.5795454	153.260159	2023-12-07	1550	-27.5796	153.2602	525,677.2	6,949,344.5	25,686.7	148,143.7	Angophora woodsiana	48	576	
-27.579478	153.260174	2023-12-07	1551	-27.5795	153.2602	525,677.4	6,949,352.5	25,686.9	148,151.7	Angophora woodsiana	38	456	
-27.5795916	153.260084	2023-12-07	1552	-27.5796	153.2601	525,670.9	6,949,344.7	25,680.4	148,143.9	Angophora woodsiana	22	264	
-27.5796146	153.260074	2023-12-07	1553	-27.5796	153.2601	525,668.9	6,949,338.5	25,678.4	148,137.7	Eucalyptus racemosa	58	696	
-27.5795558	153.259993	2023-12-07	1554	-27.5795	153.2600	525,662.2	6,949,347.3	25,671.7	148,146.6	Eucalyptus tindaliae	34	408	Hollows
-27.5794902	153.259984	2023-12-07	1555	-27.5795	153.2600	525,660.9	6,949,351.6	25,670.4	148,150.9	Angophora woodsiana	17	204	
-27.5794771	153.259941	2023-12-07	1556	-27.5795	153.2599	525,655.8	6,949,353.4	25,665.3	148,152.6	Angophora woodsiana	44	675	
-27.5796132	153.259989	2023-12-07	1557	-27.5796	153.2599	525,651.4	6,949,339.4	25,660.9	148,138.6	Angophora woodsiana	45	540	
-27.5796463	153.259906	2023-12-07	1558	-27.5796	153.2599	525,654.5	6,949,336.5	25,664.1	148,135.8	Angophora woodsiana	12	144	
-27.5795397	153.259862	2023-12-07	1559	-27.5795	153.2599	525,649.8	6,949,347.7	25,659.3	148,147.0	Angophora woodsiana	40	480	
-27.5795184	153.259855	2023-12-07	1560	-27.5795	153.2599	525,649.5	6,949,348.5	25,659.1	148,147.7	Angophora woodsiana	14	160	
-27.5794589	153.259824	2023-12-07	1561	-27.5794	153.2598	525,645.7	6,949,357.9	25,655.3	148,157.1	Angophora woodsiana	25	300	
-27.579403	153.259864	2023-12-07	1562	-27.5794	153.2599	525,649.1	6,949,361.1	25,658.6	148,160.4	Angophora woodsiana	10	120	
-27.5794058	153.259887	2023-12-07	1563	-27.5794	153.2599	525,649.1	6,949,361.6	25,658.7	148,160.9	Angophora woodsiana	21	252	
-27.5793951	153.259866	2023-12-07	1564	-27.5794	153.2599	525,650.2	6,949,361.8	25,659.7	148,161.1	Angophora woodsiana	31	372	
-27.5793738	153.259872	2023-12-07	1565	-27.5794	153.2599	525,650.0	6,949,362.8	25,659.5	148,162.0	Angophora woodsiana	13	156	
-27.5793626	153.259877	2023-12-07	1566	-27.5793	153.2599	525,649.5	6,949,368.3	25,659.0	148,167.6	Corymbia intermedia	30	550	
-27.5793494	153.259819	2023-12-07	1567	-27.5793	153.2598	525,646.2	6,949,369.1	25,655.7	148,168.4	Angophora woodsiana	17	204	
-27.5794606	153.259732	2023-12-07	1568	-27.5794	153.2598	525,638.1	6,949,361.0	25,647.6	148,160.2	Angophora woodsiana	23	301	
-27.579472	153.259755	2023-12-07	1569	-27.5794	153.2598	525,637.7	6,949,356.8	25,647.2	148,156.0	Angophora woodsiana	13	156	
-27.5794259	153.259706	2023-12-07	1570	-27.5794	153.2597	525,635.7	6,949,360.3	25,645.2	148,159.5	Eucalyptus tindaliae	8	96	
-27.5794425	153.259712	2023-12-07	1571	-27.5794	153.2597	525,634.9	6,949,358.4	25,644.4	148,157.6	Angophora woodsiana	12	144	
-27.5795268	153.259757	2023-12-07	1572	-27.5795	153.2598	525,638.4	6,949,347.4	25,647.9	148,146.6	Eucalyptus racemosa	20	240	
-27.5795247	153.259719	2023-12-07	1573	-27.5796	153.2597	525,634.7	6,949,345.1	25,644.2	148,144.3	Angophora woodsiana	34	408	
-27.5795106	153.259661	2023-12-07	1574	-27.5794	153.2597	525,628.0	6,949,356.8	25,637.5	148,156.1	Eucalyptus robusta	12	144	
-27.5794556	153.259649	2023-12-07	1575	-27.5795	153.2596	525,626.9	6,949,356.0	25,636.4	148,155.3	Eucalyptus racemosa	46	659	
-27.5795154	153.259587	2023-12-07	1576	-27.5795	153.2596	525,622.6	6,949,349.6	25,632.1	148,148.8	Eucalyptus racemosa	46	732	
-27.5795684	153.259616	2023-12-07	1577	-27.5796	153.2596	525,624.7	6,949,343.6	25,634.2	148,142.8	Lophostemon suaveolens (swampbox)	18	216	
-27.5795318	153.259562	2023-12-07	1578	-27.5795	153.2596	525,617.9	6,949,348.5	25,627.4	148,147.8	Corymbia intermedia	30	360	
-27.5794823	153.259565	2023-12-07	1579	-27.5795	153.2596	525,620.0	6,949,351.8	25,629.5	148,151.1	Lophostemon suaveolens (swampbox)	22.5	270	
-27.5794408	153.259462	2023-12-07	1580	-27.5794	153.2595	525,610.9	6,949,357.0	25,620.4	148,156.2	Lophostemon suaveolens (swampbox)	313	3756	
-27.5794784	153.259439	2023-12-07	1581	-27.5795	153.2594	525,607.0	6,949,355.1	25,616.5	148,154.4	Angophora woodsiana	32	384	
-27.5794712	153.259448	2023-12-07	1582	-27.5795	153.2594	525,606.7	6,949,354.1	25,616.2	148,153.3	Lophostemon suaveolens (swampbox)	12	144	
-27.5796049	153.2594	2023-12-07	1583	-27.5795	153.2594	525,602.0	6,949,348.1	25,611.5	148,147.4	Lophostemon suaveolens (swampbox)	21	252	
-27.5794605	153.25937	2023-12-07	1584	-27.5795	153.2594	525,599.9	6,949,354.1	25,609.4	148,153.3	Lophostemon suaveolens (swampbox)	32.5	390	
-27.5794371	153.259407	2023-12-07	1585	-27.5794	153.2594	525,602.2	6,949,357.9	25,611.7	148,157.1	Lophostemon suaveolens (swampbox)	10	120	
-27.5794253	153.259391	2023-12-07	1586	-27.5794	153.2594	525,605.3	6,949,357.8	25,614.8	148,157.1	Lophostemon suaveolens (swampbox)	10	120	
-27.5794157	153.259398	2023-12-07	1587	-27.5794	153.2594	525,605.9	6,949,358.7	25,615.4	148,158.0	Lophostemon suaveolens (swampbox)	10	120	
-27.5794086	153.259429	2023-12-07	1588	-27.5794	153.2595	525,608.0	6,949,359.7	25,617.5	148,158.9	Lophostemon suaveolens (swampbox)	10	120	
-27.5794369	153.259437	2023-12-07	1589	-27.5794	153.2594	525,606.6	6,949,357.7	25,616.1	148,157.0	Lophostemon suaveolens (swampbox)	10	120	

-27.5794213	153.259474	2023-12-07	1590	-27.5794	153.2595	525,611.7	6,949,360.3	25,621.2	148,159.5	Lophostemon suaveolens (swampbox)		18	216	
-27.5793414	153.259497	2023-12-07	1591	-27.5794	153.2595	525,615.5	6,949,366.6	25,625.0	148,165.8	Lophostemon suaveolens (swampbox)		24	288	
-27.5793611	153.259456	2023-12-07	1592	-27.5794	153.2595	525,608.7	6,949,365.5	25,618.2	148,164.7	Lophostemon suaveolens (swampbox)		20	240	
-27.5793239	153.259426	2023-12-07	1593	-27.5793	153.2595	525,608.5	6,949,371.2	25,618.0	148,170.5	Eucalyptus racemosa		50	600	
-27.5793082	153.259329	2023-12-07	1594	-27.5793	153.2594	525,600.2	6,949,368.8	25,609.7	148,168.0	Corymbia intermedia		40	480	Hollows
-27.5793243	153.259388	2023-12-07	1595	-27.5793	153.2593	525,597.8	6,949,374.8	25,607.3	148,174.1	Lophostemon suaveolens (swampbox)		18	216	
-27.5793178	153.259289	2023-12-07	1596	-27.5793	153.2593	525,594.0	6,949,371.7	25,603.5	148,171.0	Lophostemon suaveolens (swampbox)		16	192	
-27.5793289	153.259274	2023-12-07	1597	-27.5793	153.2593	525,588.9	6,949,371.9	25,598.3	148,171.1	Angophora woodsiana		22	264	
-27.579385	153.259285	2023-12-07	1598	-27.5794	153.2593	525,588.3	6,949,367.1	25,597.7	148,166.3	Lophostemon suaveolens (swampbox)		21	252	
-27.5793954	153.259295	2023-12-07	1599	-27.5794	153.2593	525,594.0	6,949,361.8	25,603.5	148,161.0	Lophostemon suaveolens (swampbox)		15	180	
-27.5793812	153.259303	2023-12-07	1600	-27.5794	153.2593	525,594.6	6,949,363.4	25,604.1	148,162.6	Eucalyptus robusta		10	120	
-27.57934	153.259449	2023-12-07	1601	-27.5794	153.2593	525,592.1	6,949,358.9	25,601.6	148,158.1	Lophostemon suaveolens (swampbox)		10	120	
-27.5795655	153.259266	2023-12-07	1602	-27.5795	153.2592	525,585.3	6,949,354.0	25,594.8	148,153.2	Lophostemon confertus (brushbox)		46	772	
-27.5794591	153.259186	2023-12-07	1603	-27.5795	153.2592	525,582.8	6,949,355.4	25,592.3	148,154.7	Angophora woodsiana		18	247	
-27.5794284	153.259145	2023-12-07	1604	-27.5795	153.2592	525,580.2	6,949,355.9	25,589.7	148,155.2	Angophora woodsiana		35	420	
-27.5794434	153.259108	2023-12-07	1605	-27.5794	153.2591	525,576.7	6,949,357.9	25,586.2	148,157.1	Lophostemon suaveolens (swampbox)		22.5	350	
-27.5794153	153.259186	2023-12-07	1606	-27.5794	153.2592	525,583.2	6,949,359.1	25,592.7	148,158.3	Lophostemon suaveolens (swampbox)		14	168	
-27.5793972	153.259189	2023-12-07	1607	-27.5794	153.2592	525,583.5	6,949,362.8	25,593.0	148,162.0	Melaleuca quinquenervia		8	96	
-27.5793362	153.259147	2023-12-07	1608	-27.5794	153.2592	525,578.4	6,949,364.8	25,587.9	148,164.0	Eucalyptus tindaliae		25.5	306	
-27.5793235	153.259129	2023-12-07	1609	-27.5793	153.2591	525,577.2	6,949,368.6	25,586.7	148,167.8	Eucalyptus robusta		10	120	
-27.5793131	153.259142	2023-12-07	1610	-27.5793	153.2591	525,577.4	6,949,369.9	25,586.9	148,169.1	Eucalyptus robusta		10	120	
-27.5793211	153.259088	2023-12-07	1611	-27.5793	153.2591	525,573.2	6,949,370.6	25,582.7	148,169.9	Lophostemon suaveolens (swampbox)		24	345	
-27.5793482	153.259171	2023-12-07	1612	-27.5793	153.2592	525,578.9	6,949,374.0	25,588.4	148,173.2	Eucalyptus robusta		10	120	
-27.5792666	153.25913	2023-12-07	1613	-27.5793	153.2591	525,576.7	6,949,375.6	25,586.1	148,174.8	Lophostemon suaveolens (swampbox)		16	192	
-27.5792761	153.25914	2023-12-07	1614	-27.5793	153.2591	525,576.3	6,949,375.1	25,585.8	148,174.3	Lophostemon suaveolens (swampbox)		21	252	
-27.5792768	153.259159	2023-12-07	1615	-27.5793	153.2592	525,581.5	6,949,378.0	25,591.0	148,177.3	Lophostemon suaveolens (swampbox)		21	252	
-27.5792166	153.25921	2023-12-07	1616	-27.5792	153.2592	525,581.4	6,949,382.6	25,590.9	148,181.9	Lophostemon suaveolens (swampbox)		29	348	
-27.5792232	153.259193	2023-12-07	1617	-27.5792	153.2592	525,584.1	6,949,380.9	25,593.6	148,180.1	Corymbia intermedia		40	480	
-27.5793321	153.25912	2023-12-07	1618	-27.5793	153.2592	525,584.7	6,949,375.2	25,594.1	148,174.5	Lophostemon suaveolens (swampbox)		28	336	
-27.5793035	153.259195	2023-12-07	1619	-27.5793	153.2592	525,583.3	6,949,373.1	25,592.8	148,172.4	Lophostemon suaveolens (swampbox)		21	252	
-27.5792987	153.259229	2023-12-07	1620	-27.5793	153.2592	525,584.8	6,949,371.8	25,594.3	148,171.0	Lophostemon suaveolens (swampbox)		17	204	
-27.5793043	153.259197	2023-12-07	1621	-27.5793	153.2592	525,584.9	6,949,368.6	25,594.3	148,167.8	Lophostemon suaveolens (swampbox)		15	180	
-27.5792971	153.259228	2023-12-07	1622	-27.5793	153.2592	525,583.4	6,949,368.4	25,592.9	148,167.7	Lophostemon suaveolens (swampbox)		27	324	
-27.5793025	153.259288	2023-12-07	1623	-27.5793	153.2593	525,589.2	6,949,374.2	25,598.7	148,173.5	Lophostemon suaveolens (swampbox)		20	250	
-27.5792792	153.259301	2023-12-07	1624	-27.5793	153.2593	525,591.5	6,949,375.6	25,601.0	148,174.9	Lophostemon suaveolens (swampbox)		20	250	
-27.5792922	153.259222	2023-12-07	1625	-27.5793	153.2593	525,589.4	6,949,378.4	25,598.9	148,177.7	Corymbia intermedia		24	288	
-27.5792006	153.259244	2023-12-07	1626	-27.5792	153.2593	525,588.2	6,949,380.8	25,597.7	148,180.0	Corymbia intermedia		31	486	
-27.5792147	153.259278	2023-12-07	1627	-27.5792	153.2593	525,591.3	6,949,381.2	25,600.8	148,180.5	Angophora woodsiana		44	528	
-27.5791406	153.259253	2023-12-07	1628	-27.5792	153.2593	525,589.8	6,949,388.2	25,599.3	148,187.5	Lophostemon suaveolens (swampbox)		26	312	
-27.5791304	153.25924	2023-12-07	1629	-27.5792	153.2592	525,586.7	6,949,389.6	25,596.2	148,188.9	Lophostemon suaveolens (swampbox)		12	144	
-27.579136	153.259212	2023-12-07	1630	-27.5791	153.2592	525,585.8	6,949,389.9	25,595.3	148,189.1	Lophostemon suaveolens (swampbox)		10	120	
-27.5791168	153.259251	2023-12-07	1631	-27.5791	153.2592	525,587.2	6,949,391.6	25,596.7	148,190.8	Lophostemon suaveolens (swampbox)		31	372	
-27.5791031	153.259205	2023-12-07	1632	-27.5791	153.2592	525,584.4	6,949,392.9	25,593.9	148,192.2	Melaleuca quinquenervia		14	315	
-27.5790344	153.259188	2023-12-07	1633	-27.5790	153.2592	525,582.3	6,949,401.9	25,591.7	148,201.2	Lophostemon suaveolens (swampbox)		16	192	
-27.5790033	153.25919	2023-12-07	1634	-27.5790	153.2592	525,584.4	6,949,402.8	25,593.9	148,202.0	Lophostemon suaveolens (swampbox)		30	360	
-27.5790044	153.25916	2023-12-07	1635	-27.5790	153.2592	525,582.6	6,949,406.5	25,592.1	148,205.7	Lophostemon suaveolens (swampbox)		10	120	
-27.5789969	153.259197	2023-12-07	1636	-27.5790	153.2591	525,577.7	6,949,407.6	25,587.2	148,206.9	Corymbia intermedia		30	360	
-27.5789533	153.259159	2023-12-07	1637	-27.5790	153.2592	525,578.8	6,949,409.6	25,588.2	148,208.8	Lophostemon confertus (brushbox)		10	120	
-27.5789377	153.259188	2023-12-07	1638	-27.5790	153.2592	525,580.5	6,949,409.8	25,590.0	148,209.1	Corymbia intermedia		12	144	
-27.5789623	153.259214	2023-12-07	1639	-27.5790	153.2592	525,585.1	6,949,411.0	25,594.6	148,210.2	Lophostemon suaveolens (swampbox)		10	209	

-27.5790072	153.259224	2023-12-07	1640	-27.5790	153.2592	525,587.1	6,949,406.3	25,596.6	148,205.5	Lophostemon suaveolens (swampbox)	30	360	
-27.5790414	153.259211	2023-12-07	1641	-27.5790	153.2592	525,586.3	6,949,402.4	25,595.8	148,201.7	Lophostemon suaveolens (swampbox)	11	132	
-27.5789841	153.259218	2023-12-07	1642	-27.5790	153.2592	525,587.6	6,949,401.5	25,597.1	148,200.8	Lophostemon suaveolens (swampbox)	30	360	
-27.57899	153.259144	2023-12-07	1643	-27.5791	153.2593	525,593.3	6,949,400.4	25,602.8	148,199.7	Lophostemon suaveolens (swampbox)	36	432	
-27.5790574	153.259299	2023-12-07	1644	-27.5791	153.2593	525,593.8	6,949,399.3	25,603.2	148,198.5	Lophostemon suaveolens (swampbox)	28	336	
-27.5791161	153.25936	2023-12-07	1645	-27.5791	153.2594	525,599.7	6,949,394.0	25,609.2	148,193.3	Lophostemon suaveolens (swampbox)	32	384	
-27.5790831	153.25931	2023-12-07	1646	-27.5791	153.2593	525,596.6	6,949,395.8	25,606.1	148,195.0	Eucalyptus seeana	29	348	
-27.5791778	153.25935	2023-12-07	1647	-27.5792	153.2594	525,599.6	6,949,386.2	25,609.1	148,185.4	Lophostemon suaveolens (swampbox)	18.5	222	
-27.5791755	153.259375	2023-12-07	1648	-27.5792	153.2594	525,601.7	6,949,384.0	25,611.2	148,183.2	Lophostemon suaveolens (swampbox)	18	314	
-27.5792216	153.259469	2023-12-07	1649	-27.5792	153.2595	525,610.4	6,949,381.8	25,619.9	148,181.1	Lophostemon suaveolens (swampbox)	19	228	
-27.5791569	153.259449	2023-12-07	1650	-27.5792	153.2595	525,608.3	6,949,384.6	25,617.7	148,183.8	Eucalyptus racemosa	27	324	
-27.5791471	153.259405	2023-12-07	1651	-27.5792	153.2594	525,605.8	6,949,389.2	25,615.2	148,188.4	Eucalyptus racemosa	44	528	
-27.5791224	153.259426	2023-12-07	1652	-27.5791	153.2594	525,604.6	6,949,390.0	25,614.1	148,189.2	Lophostemon suaveolens (swampbox)	17	200	
-27.5791245	153.259391	2023-12-07	1653	-27.5791	153.2594	525,603.3	6,949,390.5	25,612.8	148,189.7	Eucalyptus tereticornis	14	168	
-27.5790796	153.259485	2023-12-07	1654	-27.5791	153.2595	525,612.6	6,949,395.2	25,622.1	148,194.4	Lophostemon suaveolens (swampbox)	23	276	
-27.5790493	153.259542	2023-12-07	1655	-27.5791	153.2595	525,614.9	6,949,397.8	25,624.4	148,197.0	Lophostemon suaveolens (swampbox)	30	360	
-27.578918	153.259641	2023-12-07	1656	-27.5791	153.2596	525,618.0	6,949,399.6	25,627.5	148,198.8	Eucalyptus tindaliae	10	120	
-27.5790614	153.259587	2023-12-07	1657	-27.5791	153.2596	525,621.0	6,949,398.2	25,630.5	148,197.4	Lophostemon confertus (brushbox)	10	120	
-27.57912	153.259543	2023-12-07	1658	-27.5791	153.2595	525,616.8	6,949,392.2	25,626.3	148,191.4	Lophostemon suaveolens (swampbox)	24	288	
-27.5790361	153.259866	2023-12-07	1659	-27.5792	153.2595	525,615.2	6,949,388.2	25,624.7	148,187.5	Corymbia intermedia	30	360	
-27.5792643	153.259513	2023-12-07	1660	-27.5792	153.2595	525,616.2	6,949,379.2	25,625.7	148,178.5	Lophostemon suaveolens (swampbox)	24	288	
-27.5792897	153.259604	2023-12-07	1661	-27.5793	153.2596	525,623.9	6,949,375.0	25,633.4	148,174.2	Angophora woodsiana	30	360	
-27.5793396	153.259674	2023-12-07	1662	-27.5793	153.2597	525,633.6	6,949,368.7	25,643.1	148,168.0	Angophora woodsiana	60	720	
-27.5792491	153.259058	2023-12-07	1663	-27.5792	153.2597	525,630.2	6,949,385.1	25,639.7	148,184.3	Lophostemon confertus (brushbox)	10	120	
-27.5791926	153.259727	2023-12-07	1664	-27.5792	153.2597	525,632.3	6,949,383.7	25,641.8	148,182.9	Eucalyptus racemosa	34	594	
-27.5792258	153.259771	2023-12-07	1665	-27.5792	153.2598	525,639.0	6,949,385.0	25,648.5	148,184.2	Melaleuca salicina	25	506	
-27.5791964	153.259752	2023-12-07	1666	-27.5792	153.2598	525,639.7	6,949,383.4	25,649.3	148,182.7	Melaleuca salicina	16	289	
-27.5793362	153.259776	2023-12-07	1667	-27.5793	153.2598	525,639.5	6,949,369.2	25,649.0	148,168.4	Angophora woodsiana	28	336	
-27.5793411	153.259771	2023-12-07	1668	-27.5794	153.2598	525,639.6	6,949,366.5	25,649.1	148,165.8	Eucalyptus robusta	11	132	
-27.5792529	153.260001	2023-12-07	1669	-27.5793	153.2600	525,665.1	6,949,374.3	25,674.7	148,173.6	Angophora woodsiana	28	336	
-27.5793272	153.260061	2023-12-07	1670	-27.5793	153.2601	525,669.2	6,949,368.0	25,678.7	148,167.2	Eucalyptus tindaliae	34	408	
-27.5793044	153.260137	2023-12-07	1671	-27.5793	153.2601	525,676.0	6,949,374.0	25,685.6	148,173.3	Eucalyptus tindaliae	42	544	
-27.5793495	153.260214	2023-12-07	1672	-27.5794	153.2602	525,683.9	6,949,365.6	25,693.4	148,164.9	Lophostemon suaveolens (swampbox)	15	272	
-27.5796246	153.260847	2023-12-07	1673	-27.5791	153.2601	525,667.7	6,949,389.5	25,677.2	148,188.8	Angophora woodsiana	13	156	
-27.5791547	153.260024	2023-12-07	1674	-27.5791	153.2600	525,665.3	6,949,389.6	25,674.8	148,188.9	Angophora woodsiana	57	684	
-27.5791263	153.260016	2023-12-07	1675	-27.5791	153.2600	525,663.9	6,949,390.5	25,673.4	148,189.8	Eucalyptus tindaliae	24	300	
-27.5794613	153.260259	2023-12-08	1676	-27.5795	153.2603	525,691.1	6,949,355.2	25,700.6	148,154.5	Eucalyptus robusta	30	476	
-27.5795156	153.260334	2023-12-08	1677	-27.5795	153.2603	525,695.8	6,949,347.0	25,705.3	148,146.2	Angophora woodsiana	27	324	
-27.5796094	153.260208	2023-12-08	1678	-27.5796	153.2603	525,693.6	6,949,337.7	25,703.1	148,136.9	Angophora woodsiana	24	264	
-27.5796019	153.260325	2023-12-08	1679	-27.5796	153.2603	525,695.1	6,949,337.2	25,704.7	148,136.4	Eucalyptus tindaliae	14	477	
-27.5795269	153.260384	2023-12-08	1680	-27.5795	153.2604	525,702.4	6,949,346.0	25,711.9	148,145.2	Eucalyptus tindaliae	3	36	
-27.5795709	153.260511	2023-12-08	1681	-27.5796	153.2605	525,707.3	6,949,343.4	25,716.8	148,142.6	Eucalyptus tindaliae	26	312	
-27.5795089	153.260461	2023-12-08	1682	-27.5795	153.2605	525,708.2	6,949,347.0	25,717.7	148,146.2	Angophora woodsiana	26	312	
-27.5795252	153.260477	2023-12-08	1683	-27.5795	153.2605	525,710.3	6,949,347.6	25,719.9	148,146.8	Angophora woodsiana	20	240	
-27.5795134	153.260486	2023-12-08	1684	-27.5796	153.2605	525,711.8	6,949,345.1	25,721.4	148,144.3	Eucalyptus tindaliae	36	432	
-27.5794996	153.260494	2023-12-08	1685	-27.5795	153.2605	525,716.0	6,949,348.5	25,725.5	148,147.7	Corymbia intermedia	52	624	
-27.5797355	153.260729	2023-12-08	1686	-27.5797	153.2607	525,730.0	6,949,327.0	25,739.5	148,126.2	Angophora woodsiana	22	264	
-27.5797298	153.260717	2023-12-08	1687	-27.5797	153.2608	525,736.4	6,949,323.4	25,746.0	148,122.6	Eucalyptus tindaliae	60	720	
-27.5798152	153.260798	2023-12-08	1688	-27.5798	153.2608	525,740.7	6,949,316.8	25,750.2	148,116.1	Eucalyptus tindaliae	64	859	Hollows
-27.5796584	153.260778	2023-12-08	1689	-27.5797	153.2608	525,740.8	6,949,331.2	25,750.4	148,130.4	Angophora woodsiana	34	408	Hollows

-27.5795989	153.260802	2023-12-08	1690	-27.5796	153.2608	525,743.3	6,949,338.1	25,752.9	148,137.3	Angophora woodsiana	40	638		
-27.579547	153.260633	2023-12-08	1691	-27.5796	153.2606	525,725.2	6,949,344.3	25,734.7	148,143.5	Eucalyptus tindaliae	25	433		
-27.5795362	153.260628	2023-12-08	1692	-27.5795	153.2607	525,727.4	6,949,347.6	25,736.9	148,146.8	Eucalyptus tindaliae	46	552		
-27.5794389	153.260703	2023-12-08	1693	-27.5795	153.2606	525,725.9	6,949,354.7	25,735.5	148,153.9	Lophostemon suaveolens (swampbox)	38	456		
-27.5793978	153.260529	2023-12-08	1694	-27.5794	153.2606	525,717.4	6,949,362.2	25,727.0	148,161.5	Eucalyptus tindaliae	38	456		
-27.579295	153.260824	2023-12-08	1695	-27.5793	153.2608	525,745.8	6,949,371.6	25,755.3	148,170.9	Eucalyptus racemosa	24	288		
-27.5793992	153.260865	2023-12-08	1696	-27.5794	153.2609	525,747.4	6,949,364.5	25,756.9	148,163.8	Eucalyptus racemosa	22	264		
-27.5793909	153.260878	2023-12-08	1697	-27.5794	153.2609	525,749.3	6,949,361.2	25,758.8	148,160.5	Eucalyptus racemosa	44	528		
-27.57943	153.260871	2023-12-08	1698	-27.5795	153.2609	525,746.7	6,949,355.5	25,756.2	148,154.7	Eucalyptus racemosa	44	528		
-27.5794674	153.260807	2023-12-08	1699	-27.5795	153.2608	525,742.8	6,949,352.9	25,752.3	148,152.1	Eucalyptus racemosa	44	528		
-27.5795676	153.261032	2023-12-08	1700	-27.5796	153.2610	525,759.1	6,949,343.7	25,768.6	148,142.9	Lophostemon suaveolens (swampbox)	10	120		
-27.5796545	153.260988	2023-12-08	1701	-27.5797	153.2610	525,760.6	6,949,333.1	25,770.2	148,132.4	Angophora woodsiana	30	360		
-27.5796853	153.260995	2023-12-08	1702	-27.5797	153.2610	525,756.8	6,949,328.2	25,766.3	148,127.4	Eucalyptus tindaliae	64	768		
-27.5796742	153.261111	2023-12-08	1703	-27.5797	153.2611	525,774.9	6,949,329.3	25,784.5	148,128.5	Eucalyptus racemosa	60	720	Hollows	
-27.5796551	153.261127	2023-12-08	1704	-27.5797	153.2612	525,776.6	6,949,332.4	25,786.2	148,131.6	Corymbia intermedia	11	132		
-27.5796417	153.261158	2023-12-08	1705	-27.5797	153.2612	525,779.5	6,949,333.6	25,789.1	148,132.8	Corymbia intermedia	52	624		
-27.579595	153.261141	2023-12-08	1706	-27.5796	153.2612	525,777.3	6,949,341.4	25,786.9	148,140.6	Eucalyptus racemosa	58	696		
-27.5795172	153.261132	2023-12-08	1707	-27.5796	153.2611	525,771.2	6,949,342.5	25,780.7	148,141.8	Corymbia intermedia	19	228		
-27.5794957	153.26106	2023-12-08	1708	-27.5795	153.2611	525,767.2	6,949,349.3	25,776.8	148,148.6	Lophostemon suaveolens (swampbox)	42	504		
-27.5794662	153.261092	2023-12-08	1709	-27.5795	153.2611	525,772.9	6,949,352.1	25,782.4	148,151.3	Eucalyptus racemosa	33	396		
-27.5794014	153.261165	2023-12-08	1710	-27.5794	153.2612	525,779.2	6,949,363.4	25,788.7	148,162.7	Eucalyptus racemosa	64	768		
-27.5795104	153.261268	2023-12-08	1711	-27.5795	153.2613	525,789.5	6,949,346.6	25,799.1	148,145.8	Eucalyptus racemosa	16	192	Hollows	
-27.5793133	153.261151	2023-12-08	1712	-27.5793	153.2612	525,778.6	6,949,370.5	25,788.1	148,169.7	Corymbia intermedia	20	240		
-27.5792631	153.261085	2023-12-08	1713	-27.5793	153.2611	525,769.5	6,949,376.4	25,779.1	148,175.7	Eucalyptus tereticornis	30	360		
-27.5792296	153.261145	2023-12-08	1714	-27.5792	153.2612	525,776.9	6,949,382.6	25,786.4	148,181.9	Corymbia intermedia	19	228		
-27.5792932	153.261297	2023-12-08	1715	-27.5793	153.2613	525,791.8	6,949,374.0	25,801.4	148,173.2	Eucalyptus racemosa	70	840		
-27.5791644	153.26119	2023-12-08	1716	-27.5791	153.2612	525,778.7	6,949,390.2	25,788.2	148,189.4	Lophostemon suaveolens (swampbox)	18	216	Hollows	
-27.5791215	153.261044	2023-12-08	1717	-27.5791	153.2611	525,766.9	6,949,393.3	25,776.4	148,192.6	Lophostemon suaveolens (swampbox)	23	276		
-27.5790687	153.261044	2023-12-08	1718	-27.5791	153.2611	525,766.1	6,949,399.5	25,775.6	148,198.7	Lophostemon suaveolens (swampbox)	10	120		
-27.5790208	153.261004	2023-12-08	1719	-27.5790	153.2610	525,764.4	6,949,401.3	25,773.9	148,200.6	Corymbia intermedia	25	300		
-27.5789543	153.261008	2023-12-08	1720	-27.5789	153.2610	525,761.8	6,949,411.6	25,771.4	148,210.9	Corymbia intermedia	27	324		
-27.5789634	153.260928	2023-12-08	1721	-27.5790	153.2610	525,756.3	6,949,410.7	25,765.9	148,210.0	Melaleuca salicina	10	120		
-27.5788869	153.26087	2023-12-08	1722	-27.5789	153.2609	525,751.4	6,949,419.7	25,761.0	148,218.9	Lophostemon suaveolens (swampbox)	32	384		
-27.5788374	153.260862	2023-12-08	1723	-27.5788	153.2609	525,748.9	6,949,424.6	25,758.4	148,223.9	Lophostemon suaveolens (swampbox)	12	144		
-27.5788099	153.260854	2023-12-08	1724	-27.5788	153.2609	525,748.7	6,949,426.6	25,758.2	148,225.9	Lophostemon suaveolens (swampbox)	16	192		
-27.5788631	153.260807	2023-12-08	1725	-27.5788	153.2608	525,745.2	6,949,423.8	25,754.7	148,223.1	Corymbia intermedia	33	396		
-27.578737	153.260801	2023-12-08	1726	-27.5787	153.2608	525,744.5	6,949,434.8	25,754.0	148,234.1	Corymbia intermedia	22	264		
-27.5786379	153.260708	2023-12-08	1727	-27.5786	153.2607	525,734.5	6,949,447.3	25,744.0	148,246.6	Corymbia intermedia	22	264		
-27.5786102	153.260663	2023-12-08	1728	-27.5786	153.2607	525,730.5	6,949,448.7	25,740.0	148,248.0	Melaleuca salicina	10	170		
-27.5785007	153.260619	2023-12-08	1729	-27.5785	153.2607	525,726.8	6,949,461.0	25,736.4	148,260.3	Lophostemon suaveolens (swampbox)	30	360		
-27.5784685	153.260646	2023-12-08	1730	-27.5785	153.2607	525,728.2	6,949,465.7	25,737.8	148,265.0	Corymbia intermedia	28	346		
-27.5784449	153.260658	2023-12-08	1731	-27.5785	153.2607	525,729.9	6,949,466.5	25,739.4	148,265.8	Corymbia intermedia	10	120		
-27.5784101	153.26067	2023-12-08	1732	-27.5784	153.2607	525,730.5	6,949,468.6	25,740.1	148,267.9	Lophostemon suaveolens (swampbox)	10	120		
-27.5784479	153.260684	2023-12-08	1733	-27.5784	153.2607	525,731.4	6,949,467.1	25,740.9	148,266.4	Melaleuca salicina	8	96		
-27.5784513	153.260659	2023-12-08	1734	-27.5784	153.2607	525,732.4	6,949,467.8	25,742.0	148,267.1	Eucalyptus racemosa	10	120		
-27.5784302	153.260739	2023-12-08	1735	-27.5784	153.2608	525,737.1	6,949,469.7	25,746.7	148,269.0	Corymbia intermedia	34	408		
-27.5785145	153.260757	2023-12-08	1736	-27.5785	153.2608	525,740.0	6,949,464.8	25,749.5	148,264.0	Eucalyptus racemosa	48	894		
-27.5784591	153.260603	2023-12-08	1737	-27.5784	153.2606	525,722.5	6,949,471.8	25,732.0	148,271.1	Eucalyptus racemosa	56	672		
-27.5783927	153.260528	2023-12-08	1738	-27.5784	153.2606	525,718.0	6,949,471.6	25,727.5	148,270.9	Melaleuca quinquenervia	10	120		
-27.5783954	153.260512	2023-12-08	1739	-27.5784	153.2605	525,714.6	6,949,471.7	25,724.1	148,270.9	Melaleuca quinquenervia	10	120		

-27.5784127	153.260505	2023-12-08	1740	-27.5784	153.2605	525,714.0	6,949,471.7	25,723.5	148,271.0	Corymbia intermedia	45	540	
-27.5784095	153.260503	2023-12-08	1741	-27.5784	153.2605	525,713.1	6,949,472.1	25,722.7	148,271.4	Melaleuca quinquenervia	30	360	
-27.5783993	153.260462	2023-12-08	1742	-27.5784	153.2605	525,710.9	6,949,472.7	25,720.4	148,271.9	Lophostemon suaveolens (swampbox)	12	144	
-27.5784657	153.260506	2023-12-08	1743	-27.5785	153.2605	525,712.8	6,949,464.5	25,722.3	148,263.7	Corymbia intermedia	30	360	
-27.5785069	153.26057	2023-12-08	1744	-27.5785	153.2606	525,722.3	6,949,460.8	25,731.8	148,260.1	Corymbia intermedia	10	120	
-27.5784826	153.260564	2023-12-08	1745	-27.5785	153.2606	525,719.3	6,949,458.1	25,728.9	148,257.4	Eucalyptus racemosa	44	528	
-27.578519	153.260567	2023-12-08	1746	-27.5785	153.2606	525,718.5	6,949,456.2	25,728.1	148,255.5	Corymbia intermedia	14	168	
-27.578568	153.260595	2023-12-08	1747	-27.5786	153.2606	525,726.0	6,949,449.2	25,735.5	148,248.5	Lophostemon suaveolens (swampbox)	30	384	
-27.5786044	153.260598	2023-12-08	1748	-27.5786	153.2606	525,723.4	6,949,445.6	25,732.9	148,244.9	Corymbia intermedia	35	420	
-27.5786358	153.260563	2023-12-08	1749	-27.5787	153.2606	525,719.2	6,949,444.2	25,728.7	148,243.5	Lophostemon suaveolens (swampbox)	15	180	
-27.5786376	153.260507	2023-12-08	1750	-27.5787	153.2605	525,712.9	6,949,444.8	25,722.4	148,244.0	Corymbia intermedia	32	384	
-27.5786517	153.260581	2023-12-08	1751	-27.5787	153.2606	525,718.7	6,949,442.1	25,728.2	148,241.4	Lophostemon suaveolens (swampbox)	10	120	
-27.5786587	153.260608	2023-12-08	1752	-27.5787	153.2606	525,721.7	6,949,439.9	25,731.2	148,239.1	Corymbia intermedia	27	324	
-27.5787039	153.260555	2023-12-08	1753	-27.5787	153.2606	525,716.8	6,949,438.6	25,726.3	148,237.8	Lophostemon suaveolens (swampbox)	29	348	
-27.5787726	153.260452	2023-12-08	1754	-27.5788	153.2605	525,707.5	6,949,433.0	25,717.1	148,232.3	Eucalyptus racemosa	35	420	
-27.5787422	153.260661	2023-12-08	1755	-27.5787	153.2607	525,729.2	6,949,434.6	25,738.7	148,233.8	Corymbia intermedia	44	528	
-27.5789491	153.26041	2023-12-08	1756	-27.5787	153.2607	525,730.4	6,949,435.8	25,739.9	148,235.0	Lophostemon suaveolens (swampbox)	10	120	
-27.578721	153.260662	2023-12-08	1757	-27.5787	153.2607	525,733.0	6,949,437.6	25,742.5	148,236.8	Lophostemon suaveolens (swampbox)	10	120	
-27.5787178	153.260684	2023-12-08	1758	-27.5787	153.2607	525,733.7	6,949,437.7	25,743.3	148,237.0	Melaleuca quinquenervia	19	228	
-27.5787204	153.260659	2023-12-08	1759	-27.5787	153.2607	525,733.1	6,949,434.6	25,742.6	148,233.9	Melaleuca quinquenervia	34	408	
-27.5788521	153.260674	2023-12-08	1760	-27.5789	153.2607	525,728.1	6,949,420.8	25,737.6	148,220.1	Lophostemon suaveolens (swampbox)	10	120	
-27.5788736	153.260516	2023-12-08	1761	-27.5789	153.2605	525,716.2	6,949,420.5	25,725.8	148,219.8	Angophora woodsiana	16	192	
-27.5788599	153.260512	2023-12-08	1762	-27.5789	153.2605	525,713.8	6,949,422.6	25,723.3	148,221.9	Angophora woodsiana	20	240	
-27.5788568	153.260458	2023-12-08	1763	-27.5788	153.2605	525,710.7	6,949,423.1	25,720.2	148,222.4	Lophostemon suaveolens (swampbox)	12	144	
-27.5789571	153.260381	2023-12-08	1764	-27.5790	153.2604	525,705.0	6,949,411.4	25,714.5	148,210.7	Lophostemon suaveolens (swampbox)	10	120	
-27.5790532	153.260366	2023-12-08	1765	-27.5790	153.2604	525,705.4	6,949,404.6	25,714.9	148,203.9	Lophostemon suaveolens (swampbox)	20	339	
-27.5791032	153.260421	2023-12-08	1766	-27.5791	153.2605	525,706.5	6,949,395.7	25,716.1	148,194.9	Eucalyptus tindaliae	34	408	
-27.5789268	153.260666	2023-12-08	1767	-27.5790	153.2607	525,728.9	6,949,411.0	25,738.5	148,210.2	Lophostemon suaveolens (swampbox)	10	120	
-27.5790116	153.26086	2023-12-08	1768	-27.5791	153.2608	525,743.3	6,949,398.1	25,752.9	148,197.4	Melaleuca quinquenervia	10	120	
-27.5791932	153.260801	2023-12-08	1769	-27.5792	153.2609	525,746.5	6,949,387.4	25,756.0	148,186.6	Lophostemon suaveolens (swampbox)	10	120	
-27.5791977	153.260809	2023-12-08	1770	-27.5792	153.2608	525,745.7	6,949,382.1	25,755.3	148,181.4	Eucalyptus racemosa	32	402	
-27.5791828	153.260754	2023-12-08	1771	-27.5792	153.2608	525,739.1	6,949,385.9	25,748.7	148,185.2	Lophostemon suaveolens (swampbox)	15	180	
-27.5792135	153.260717	2023-12-08	1772	-27.5792	153.2607	525,735.9	6,949,383.8	25,745.4	148,183.0	Lophostemon suaveolens (swampbox)	8	96	
-27.5792553	153.26074	2023-12-08	1773	-27.5793	153.2608	525,736.7	6,949,377.9	25,746.3	148,177.1	Melaleuca quinquenervia	10	219	
-27.5792179	153.260433	2023-12-08	1774	-27.5792	153.2605	525,708.3	6,949,384.7	25,717.8	148,184.0	Lophostemon suaveolens (swampbox)	17	231	
-27.57922	153.260432	2023-12-08	1775	-27.5792	153.2605	525,708.4	6,949,387.7	25,717.9	148,186.9	Eucalyptus tindaliae	10	120	
-27.5791913	153.260386	2023-12-08	1776	-27.5792	153.2604	525,705.4	6,949,388.2	25,714.9	148,187.4	Lophostemon suaveolens (swampbox)	7	84	
-27.5791496	153.260401	2023-12-08	1777	-27.5792	153.2604	525,705.3	6,949,389.4	25,714.8	148,188.6	Lophostemon suaveolens (swampbox)	6	72	
-27.5791408	153.260388	2023-12-08	1778	-27.5792	153.2604	525,704.3	6,949,388.8	25,713.8	148,188.0	Corymbia intermedia	10	120	
-27.5791986	153.26034	2023-12-08	1779	-27.5792	153.2604	525,701.5	6,949,384.8	25,711.0	148,184.1	Eucalyptus tindaliae	18	216	
-27.5802863	153.260634	2023-12-08	1780	-27.5802	153.2608	525,740.9	6,949,270.5	25,750.4	148,069.6	Eucalyptus racemosa	86	1032	
-27.5803376	153.260733	2023-12-08	1781	-27.5804	153.2608	525,738.1	6,949,255.2	25,747.6	148,054.4	Eucalyptus racemosa	56	648	Hollows
-27.581002	153.260599	2023-12-08	1782	-27.5810	153.2606	525,722.7	6,949,183.3	25,732.3	147,982.5	Eucalyptus racemosa	74	888	Hollows
-27.5812568	153.260447	2023-12-08	1783	-27.5813	153.2605	525,706.5	6,949,153.6	25,716.1	147,952.8	Lophostemon confertus (brushbox)	62	744	Hollows
-27.5811092	153.259805	2023-12-08	1784	-27.5811	153.2598	525,646.2	6,949,170.3	25,655.7	147,969.5	Eucalyptus racemosa	64	768	
-27.5811559	153.259776	2023-12-08	1785	-27.5811	153.2598	525,641.0	6,949,169.6	25,650.5	147,968.7	Eucalyptus racemosa	64	768	Hollow
-27.5808865	153.258751	2023-12-08	1786	-27.5809	153.2588	525,545.1	6,949,199.4	25,554.6	147,998.6	Eucalyptus racemosa	80	960	Hollows
-27.5807385	153.258839	2023-12-08	1787	-27.5807	153.2589	525,551.7	6,949,214.0	25,561.2	148,013.2	Lophostemon confertus (brushbox)	60	720	Hollows
-27.5807748	153.258461	2023-12-08	1788	-27.5807	153.2586	525,520.7	6,949,212.8	25,530.1	148,012.0	Eucalyptus tindaliae	46	552	
-27.5803839	153.258614	2023-12-08	1789	-27.5804	153.2586	525,527.1	6,949,252.2	25,536.5	148,051.4	Lophostemon suaveolens (swampbox)	56	672	

-27.5806813	153.258471	2023-12-08	1790	-27.5807	153.2585	525,511.4	6,949,223.7	25,520.9	148,022.9	Eucalyptus seeana		54	648		
-27.5807368	153.258435	2023-12-08	1791	-27.5807	153.2585	525,513.5	6,949,213.0	25,523.0	148,012.2	Angophora woodsiana		65	780		
-27.5807052	153.258394	2023-12-08	1792	-27.5807	153.2584	525,505.7	6,949,219.9	25,515.1	148,019.1	Lophostemon suaveolens (swampbox)		56	672		
-27.5807799	153.258429	2023-12-08	1793	-27.5806	153.2583	525,496.8	6,949,226.4	25,506.2	148,025.6	Lophostemon confertus (brushbox)		56	672		
-27.5807971	153.258333	2023-12-08	1794	-27.5808	153.2583	525,497.9	6,949,207.2	25,507.3	148,006.3	Eucalyptus tindaliae		54	648		
-27.5808335	153.258246	2023-12-08	1795	-27.5808	153.2583	525,492.1	6,949,204.6	25,501.5	148,003.7	Eucalyptus tindaliae		60	720		
-27.5807209	153.257453	2023-12-08	1796	-27.5807	153.2574	525,407.2	6,949,216.3	25,416.6	148,015.5	Eucalyptus microcorys		80	960	Hollow	
-27.5803929	153.257966	2023-12-08	1797	-27.5804	153.2581	525,471.2	6,949,253.6	25,480.6	148,052.8	Corymbia trachyphloia	Brown Bloodwood	70	840	Hollow	
-27.5804559	153.258278	2023-12-08	1798	-27.5805	153.2582	525,487.8	6,949,237.6	25,497.3	148,036.8	Lophostemon suaveolens (swampbox)		10	120	Hollow	
-27.5804638	153.258279	2023-12-08	1799	-27.5805	153.2582	525,488.0	6,949,239.1	25,497.5	148,038.2	Lophostemon confertus (brushbox)		10	120		
-27.5804831	153.25818	2023-12-08	1800	-27.5805	153.2582	525,485.2	6,949,241.2	25,494.7	148,040.4	Lophostemon confertus (brushbox)		11	132		
-27.5810591	153.257958	2023-12-08	1801	-27.5811	153.2580	525,463.6	6,949,173.7	25,473.1	147,972.9	Lophostemon confertus (brushbox)		48	576		
-27.5810745	153.258386	2023-12-08	1802	-27.5811	153.2584	525,503.8	6,949,177.2	25,513.3	147,976.4	Eucalyptus tindaliae		64	768		
-27.5810541	153.258399	2023-12-08	1803	-27.5811	153.2585	525,509.2	6,949,174.9	25,518.7	147,974.1	Eucalyptus racemosa		72	864		
-27.581348	153.258323	2023-12-08	1804	-27.5814	153.2583	525,492.8	6,949,144.5	25,502.3	147,943.6	Eucalyptus seeana		60	720	Hollows	
-27.5815817	153.257941	2023-12-08	1805	-27.5816	153.2580	525,459.4	6,949,116.7	25,468.8	147,915.8	Corymbia intermedia		40	480	Hollow	
-27.5818872	153.258104	2023-12-08	1806	-27.5819	153.2581	525,474.9	6,949,087.7	25,484.4	147,886.8	Eucalyptus tindaliae		40	480		
-27.5818453	153.258362	2023-12-08	1807	-27.5818	153.2584	525,500.2	6,949,092.1	25,509.6	147,891.3	Melaleuca salicina		66	792		
-27.5817589	153.258303	2023-12-08	1808	-27.5818	153.2583	525,496.9	6,949,100.8	25,506.3	147,899.9	Lophostemon suaveolens (swampbox)		22	264	Hollow	
-27.5817528	153.258273	2023-12-08	1809	-27.5817	153.2583	525,495.2	6,949,102.7	25,504.6	147,901.8	Lophostemon suaveolens (swampbox)		28	336		
-27.5817677	153.25833	2023-12-08	1810	-27.5818	153.2583	525,497.8	6,949,101.8	25,507.2	147,901.0	Lophostemon suaveolens (swampbox)		25	300		
-27.5817362	153.258338	2023-12-08	1811	-27.5817	153.2584	525,499.9	6,949,103.0	25,509.3	147,902.1	Lophostemon suaveolens (swampbox)		11	248		
-27.5817024	153.258327	2023-12-08	1812	-27.5817	153.2583	525,497.6	6,949,104.7	25,507.0	147,903.9	Lophostemon suaveolens (swampbox)		17	204		
-27.5817358	153.258301	2023-12-08	1813	-27.5817	153.2583	525,498.4	6,949,104.5	25,507.8	147,903.7	Lophostemon suaveolens (swampbox)		10	120		
-27.5817238	153.258319	2023-12-08	1814	-27.5817	153.2584	525,499.2	6,949,105.5	25,508.6	147,904.6	Lophostemon suaveolens (swampbox)		30	360		
-27.5816937	153.258352	2023-12-08	1815	-27.5817	153.2584	525,500.1	6,949,107.3	25,509.5	147,906.4	Lophostemon suaveolens (swampbox)		30	492		
-27.5816699	153.258279	2023-12-08	1816	-27.5817	153.2583	525,494.7	6,949,109.8	25,504.1	147,908.9	Lophostemon suaveolens (swampbox)		46	552		
-27.5816847	153.258393	2023-12-08	1817	-27.5816	153.2582	525,486.0	6,949,116.7	25,495.5	147,915.8	Melaleuca salicina		36	432		
-27.5815179	153.258446	2023-12-08	1818	-27.5815	153.2584	525,506.4	6,949,128.4	25,515.8	147,927.6	Lophostemon confertus (brushbox)		60	720		
-27.5813711	153.258493	2023-12-08	1819	-27.5814	153.2585	525,512.0	6,949,136.6	25,521.5	147,935.7	Lophostemon confertus (brushbox)		66	792		
-27.5816247	153.258603	2023-12-08	1820	-27.5816	153.2586	525,522.4	6,949,114.5	25,531.8	147,913.6	Eucalyptus racemosa		72	864		
-27.5817072	153.258518	2023-12-08	1821	-27.5817	153.2584	525,507.9	6,949,106.3	25,517.4	147,905.5	Lophostemon suaveolens (swampbox)		31	372	Hollow	
-27.5817748	153.258466	2023-12-08	1822	-27.5818	153.2585	525,512.4	6,949,099.5	25,521.8	147,898.7	Eucalyptus microcorys		66	792		
-27.5817645	153.258778	2023-12-08	1823	-27.5819	153.2588	525,539.2	6,949,086.2	25,548.7	147,885.4	Lophostemon suaveolens (swampbox)		70	840	Hollow	
-27.5818037	153.258751	2023-12-08	1824	-27.5818	153.2589	525,553.9	6,949,095.7	25,563.3	147,894.9	Corymbia intermedia		52	624		
-27.5816721	153.259053	2023-12-08	1825	-27.5817	153.2591	525,569.7	6,949,106.5	25,579.2	147,905.6	Eucalyptus microcorys		72	864		
-27.5814917	153.259001	2023-12-08	1826	-27.5815	153.2590	525,564.3	6,949,128.1	25,573.7	147,927.3	Lophostemon confertus (brushbox)		27	324		
-27.5811664	153.259277	2023-12-08	1827	-27.5812	153.2593	525,588.5	6,949,162.8	25,598.0	147,961.9	Eucalyptus microcorys		52	840		
-27.5812379	153.259262	2023-12-08	1828	-27.5812	153.2593	525,592.1	6,949,159.1	25,601.6	147,958.3	Melaleuca salicina		36	432		
-27.5813023	153.259434	2023-12-08	1829	-27.5813	153.2595	525,609.5	6,949,152.8	25,619.0	147,951.9	Melaleuca salicina		40	542		
-27.5813025	153.259475	2023-12-08	1830	-27.5813	153.2595	525,614.0	6,949,150.8	25,623.5	147,949.9	Lophostemon confertus (brushbox)		40	480		
-27.5813227	153.259592	2023-12-08	1831	-27.5813	153.2596	525,622.7	6,949,147.6	25,632.2	147,946.7	Melaleuca salicina		48	759		
-27.581302	153.259622	2023-12-08	1832	-27.5813	153.2596	525,625.3	6,949,150.1	25,634.8	147,949.3	Eucalyptus seeana		42	504		
-27.581576	153.259476	2023-12-08	1833	-27.5816	153.2594	525,606.3	6,949,118.4	25,615.8	147,917.6	Eucalyptus microcorys		74	888		
-27.5815697	153.259548	2023-12-08	1834	-27.5816	153.2596	525,619.8	6,949,121.4	25,629.3	147,920.6	Lophostemon confertus (brushbox)		70	840	Hollow	
-27.5814965	153.259681	2023-12-08	1835	-27.5815	153.2597	525,630.4	6,949,127.6	25,639.9	147,926.7	Eucalyptus seeana		65	780		
-27.5813018	153.259846	2023-12-08	1836	-27.5813	153.2599	525,647.7	6,949,151.3	25,657.2	147,950.5	Eucalyptus tindaliae		42	504	Hollows	
-27.5810934	153.262284	2023-12-08	1837	-27.5814	153.2601	525,667.4	6,949,142.7	25,676.9	147,941.8	Eucalyptus racemosa		70	840		
-27.5814191	153.26025	2023-12-08	1838	-27.5814	153.2603	525,688.5	6,949,136.2	25,698.0	147,935.3	Eucalyptus racemosa		56	672	Hollow	
-27.5814252	153.260209	2023-12-08	1839	-27.5814	153.2602	525,682.4	6,949,135.2	25,691.9	147,934.3	Eucalyptus racemosa		40	480		

-27.5813697	153.260279	2023-12-08	1840	-27.5815	153.2602	525,679.1	6,949,133.1	25,688.6	147,932.2	Eucalyptus tindaliae		11	132	
-27.5813941	153.260122	2023-12-08	1841	-27.5815	153.2601	525,676.3	6,949,134.0	25,685.8	147,933.1	Eucalyptus tindaliae		14	168	
-27.5814451	153.260153	2023-12-08	1842	-27.5815	153.2602	525,678.8	6,949,130.5	25,688.3	147,929.7	Eucalyptus tindaliae		12	144	
-27.5814813	153.260145	2023-12-08	1843	-27.5815	153.2601	525,675.9	6,949,129.4	25,685.4	147,928.5	Eucalyptus tindaliae		20	366	
-27.5815046	153.260149	2023-12-08	1844	-27.5815	153.2602	525,676.7	6,949,128.7	25,686.3	147,927.8	Eucalyptus tindaliae		8	96	
-27.581513	153.260128	2023-12-08	1845	-27.5815	153.2601	525,675.4	6,949,126.7	25,684.9	147,925.9	Eucalyptus tindaliae		10	120	
-27.5815061	153.260142	2023-12-08	1846	-27.5815	153.2601	525,675.7	6,949,126.4	25,685.2	147,925.6	Eucalyptus tindaliae		20	240	
-27.5815482	153.260151	2023-12-08	1847	-27.5815	153.2601	525,676.2	6,949,125.3	25,685.7	147,924.4	Eucalyptus tindaliae		12	144	
-27.5815454	153.260161	2023-12-08	1848	-27.5815	153.2602	525,677.3	6,949,125.7	25,686.9	147,924.8	Eucalyptus tindaliae		8	96	
-27.5815439	153.260143	2023-12-08	1849	-27.5815	153.2602	525,677.4	6,949,126.1	25,687.0	147,925.2	Eucalyptus tindaliae		11	132	
-27.5815235	153.260142	2023-12-08	1850	-27.5815	153.2602	525,677.8	6,949,126.7	25,687.3	147,925.8	Eucalyptus tindaliae		9	108	
-27.5815115	153.260203	2023-12-08	1851	-27.5815	153.2602	525,683.0	6,949,126.7	25,692.5	147,925.9	Eucalyptus tindaliae		26	312	
-27.5815348	153.260186	2023-12-08	1852	-27.5815	153.2602	525,679.7	6,949,124.3	25,689.2	147,923.4	Eucalyptus tindaliae		42	504	
-27.5815757	153.260142	2023-12-08	1853	-27.5816	153.2601	525,675.2	6,949,121.4	25,684.7	147,920.5	Eucalyptus racemosa		82	984	
-27.5817375	153.259885	2023-12-08	1854	-27.5818	153.2599	525,651.7	6,949,099.5	25,661.3	147,898.6	Eucalyptus tindaliae		62	744	
-27.5821968	153.259108	2023-12-08	1855	-27.5818	153.2599	525,651.3	6,949,098.5	25,660.8	147,897.6	Lophostemon suaveolens (swampbox)		58	696	Hollow
-27.5817951	153.260018	2023-12-08	1856	-27.5818	153.2600	525,662.6	6,949,093.6	25,672.1	147,892.8	Corymbia intermedia		40	480	
-27.5818664	153.260019	2023-12-08	1857	-27.5819	153.2600	525,664.2	6,949,086.5	25,673.7	147,885.6	Melaleuca salicina		38	456	
-27.5818341	153.260035	2023-12-08	1858	-27.5818	153.2601	525,667.3	6,949,091.3	25,676.8	147,890.5	Corymbia intermedia		44	528	
-27.5818281	153.26004	2023-12-08	1859	-27.5818	153.2601	525,671.2	6,949,090.6	25,680.7	147,889.8	Eucalyptus tindaliae		40	480	
-27.5818136	153.26012	2023-12-08	1860	-27.5818	153.2601	525,675.3	6,949,093.0	25,684.8	147,892.1	Eucalyptus tindaliae		40	480	
-27.5817712	153.260132	2023-12-08	1861	-27.5818	153.2602	525,680.0	6,949,097.3	25,689.5	147,896.4	Lophostemon confertus (brushbox)		80	960	
-27.5819916	153.260246	2023-12-08	1862	-27.5820	153.2602	525,685.4	6,949,073.0	25,694.9	147,872.1	Eucalyptus microcorys		70	840	
-27.5821863	153.261065	2023-12-08	1863	-27.5822	153.2611	525,767.2	6,949,051.6	25,776.7	147,850.7	Eucalyptus racemosa		66	792	Hollow
-27.5822632	153.261014	2023-12-08	1864	-27.5823	153.2610	525,762.6	6,949,042.9	25,772.2	147,842.0	Eucalyptus tindaliae		64	768	Hollow
-27.5823529	153.261065	2023-12-08	1865	-27.5824	153.2611	525,766.1	6,949,030.4	25,775.6	147,829.5	Angophora woodsiana		46	552	Hollow
-27.582426	153.261051	2023-12-08	1866	-27.5824	153.2610	525,764.8	6,949,026.9	25,774.4	147,826.0	Eucalyptus siderophloia		60	720	
-27.5824499	153.260998	2023-12-08	1867	-27.5825	153.2610	525,759.3	6,949,022.6	25,768.8	147,821.7	Eucalyptus siderophloia		46	552	Hollow
-27.5823984	153.260958	2023-12-08	1868	-27.5824	153.2610	525,756.2	6,949,024.8	25,765.8	147,823.9	Eucalyptus tindaliae		50	600	
-27.5824026	153.260838	2023-12-08	1869	-27.5824	153.2608	525,741.8	6,949,027.6	25,751.3	147,826.7	Eucalyptus tindaliae		73	876	Hollows
-27.5824801	153.260789	2023-12-08	1870	-27.5825	153.2608	525,738.3	6,949,020.6	25,747.8	147,819.7	Eucalyptus tindaliae		50	832	Hollows
-27.5825934	153.260754	2023-12-08	1871	-27.5826	153.2608	525,736.5	6,949,004.2	25,746.1	147,803.3	Eucalyptus siderophloia		56	672	
-27.5826449	153.26059	2023-12-08	1872	-27.5827	153.2606	525,722.6	6,949,000.3	25,732.1	147,799.4	Lophostemon confertus (brushbox)		45	540	
-27.582692	153.260483	2023-12-08	1873	-27.5827	153.2605	525,711.0	6,948,993.7	25,720.6	147,792.8	Corymbia intermedia		58	696	
-27.5826042	153.260465	2023-12-08	1874	-27.5826	153.2605	525,708.1	6,949,011.0	25,717.6	147,810.1	Eucalyptus racemosa		80	960	
-27.5823323	153.260685	2023-12-08	1875	-27.5824	153.2607	525,734.1	6,949,034.2	25,743.7	147,833.3	Eucalyptus microcorys		48	576	Hollows
-27.5822341	153.260493	2023-12-08	1876	-27.5823	153.2605	525,708.6	6,949,044.1	25,718.2	147,843.2	Eucalyptus racemosa		50	975	
-27.5824096	153.260464	2023-12-08	1877	-27.5823	153.2604	525,705.0	6,949,038.4	25,714.5	147,837.5	Eucalyptus racemosa		82	984	Hollows
-27.5824465	153.260383	2023-12-08	1878	-27.5824	153.2605	525,709.3	6,949,029.9	25,718.8	147,829.1	Eucalyptus microcorys		80	960	Hollow
-27.5825236	153.260314	2023-12-08	1879	-27.5825	153.2604	525,697.3	6,949,013.6	25,706.8	147,812.7	Corymbia intermedia		50	600	Hollow
-27.5825476	153.260279	2023-12-08	1880	-27.5825	153.2603	525,692.0	6,949,014.7	25,701.5	147,813.8	Corymbia intermedia		70	840	
-27.5825046	153.260294	2023-12-08	1881	-27.5825	153.2602	525,685.2	6,949,014.7	25,694.7	147,813.8	Eucalyptus microcorys		70	840	Hollow
-27.5826001	153.259942	2023-12-08	1882	-27.5826	153.2600	525,657.4	6,949,004.8	25,666.9	147,803.9	Eucalyptus siderophloia	Iron Bark	40	480	Hollow
-27.5826112	153.259907	2023-12-08	1883	-27.5826	153.2599	525,653.2	6,949,009.3	25,662.7	147,808.4	Eucalyptus racemosa		48	576	
-27.5821898	153.260369	2023-12-08	1884	-27.5822	153.2604	525,696.2	6,949,050.0	25,705.7	147,849.1	Melaleuca salicina		50	600	
-27.5821552	153.260347	2023-12-08	1885	-27.5822	153.2603	525,695.3	6,949,053.4	25,704.8	147,852.5	Melaleuca salicina		30	360	
-27.5822525	153.260083	2023-12-08	1886	-27.5823	153.2601	525,673.9	6,949,046.1	25,683.4	147,845.2	Eucalyptus racemosa		40	818	
-27.5822458	153.259947	2023-12-08	1887	-27.5823	153.2600	525,657.4	6,949,041.8	25,666.9	147,841.0	Melaleuca quinquenervia		38	745	
-27.5822267	153.259482	2023-12-08	1888	-27.5822	153.2595	525,609.0	6,949,052.7	25,618.5	147,851.8	Melaleuca salicina		26	312	
-27.5821801	153.259445	2023-12-08	1889	-27.5822	153.2595	525,608.7	6,949,055.1	25,618.2	147,854.2	Melaleuca salicina		38	456	

-27.5821787	153.259458	2023-12-08	1890	-27.5822	153.2594	525,606.7	6,949,053.8	25,616.2	147,852.9	Eucalyptus racemosa	44	714	
-27.5821204	153.259406	2023-12-08	1891	-27.5821	153.2594	525,603.8	6,949,061.4	25,613.3	147,860.5	Melaleuca salicina	40	480	
-27.5821134	153.259394	2023-12-08	1892	-27.5821	153.2594	525,602.2	6,949,060.7	25,611.7	147,859.9	Lophostemon suaveolens (swampbox)	10	120	
-27.5821225	153.259399	2023-12-08	1893	-27.5821	153.2594	525,602.5	6,949,060.3	25,612.0	147,859.5	Eucalyptus racemosa	40	480	
-27.5820747	153.259363	2023-12-08	1894	-27.5821	153.2594	525,599.2	6,949,064.4	25,608.7	147,863.5	Eucalyptus racemosa	50	600	
-27.5820514	153.259119	2023-12-08	1895	-27.5820	153.2591	525,576.8	6,949,073.1	25,586.2	147,872.2	Eucalyptus racemosa	82	1294	
-27.5820923	153.259304	2023-12-08	1896	-27.5821	153.2593	525,595.8	6,949,062.9	25,605.3	147,862.0	Corymbia intermedia	45	540	Hollow
-27.582082	153.25931	2023-12-08	1897	-27.5821	153.2593	525,596.0	6,949,061.9	25,605.5	147,861.0	Melaleuca quinquenervia	10	208	
-27.5821261	153.259302	2023-12-08	1898	-27.5821	153.2593	525,594.4	6,949,057.9	25,603.9	147,857.0	Melaleuca salicina	36	448	
-27.5821607	153.259311	2023-12-08	1899	-27.5821	153.2593	525,596.1	6,949,057.6	25,605.6	147,856.7	Melaleuca salicina	20	268	
-27.5822152	153.259348	2023-12-08	1900	-27.5822	153.2593	525,596.7	6,949,056.6	25,606.2	147,855.7	Melaleuca salicina	30	433	
-27.5821763	153.259383	2023-12-08	1901	-27.5822	153.2594	525,601.7	6,949,056.2	25,611.2	147,855.4	Melaleuca salicina	12	187	
-27.5821884	153.259351	2023-12-08	1902	-27.5822	153.2594	525,602.0	6,949,055.9	25,611.5	147,855.0	Eucalyptus microcorys	24	288	
-27.5821658	153.259376	2023-12-08	1903	-27.5822	153.2594	525,602.4	6,949,054.4	25,611.9	147,853.5	Melaleuca salicina	10	240	
-27.5822056	153.259379	2023-12-08	1904	-27.5822	153.2594	525,601.3	6,949,052.7	25,610.8	147,851.8	Melaleuca salicina	10	208	
-27.5822334	153.25942	2023-12-08	1905	-27.5822	153.2594	525,603.3	6,949,047.9	25,612.8	147,847.0	Melaleuca salicina	20	240	
-27.582272	153.25933	2023-12-08	1906	-27.5823	153.2594	525,598.4	6,949,045.9	25,607.9	147,845.0	Melaleuca salicina	13	156	
-27.582262	153.259353	2023-12-08	1907	-27.5823	153.2594	525,597.5	6,949,046.0	25,607.0	147,845.1	Melaleuca salicina	28	336	
-27.5823106	153.259366	2023-12-08	1908	-27.5823	153.2594	525,598.5	6,949,043.6	25,608.0	147,842.7	Melaleuca salicina	32	384	
-27.5822562	153.259279	2023-12-08	1909	-27.5822	153.2593	525,592.6	6,949,048.3	25,602.0	147,847.4	Melaleuca salicina	34	408	
-27.5823032	153.25928	2023-12-08	1910	-27.5823	153.2593	525,593.6	6,949,042.4	25,603.0	147,841.5	Melaleuca salicina	35	420	
-27.5819768	153.259197	2023-12-08	1911	-27.5824	153.2594	525,597.5	6,949,034.9	25,607.0	147,834.1	Melaleuca salicina	27	334	
-27.582435	153.259339	2023-12-08	1912	-27.5824	153.2593	525,592.5	6,949,034.7	25,602.0	147,833.8	Eucalyptus seeana	40	480	
-27.5823915	153.259223	2023-12-08	1913	-27.5824	153.2592	525,582.4	6,949,031.3	25,591.9	147,830.4	Melaleuca salicina	30	360	
-27.5824322	153.259181	2023-12-08	1914	-27.5824	153.2592	525,583.0	6,949,030.4	25,592.4	147,829.5	Melaleuca salicina	31	372	
-27.5825064	153.259171	2023-12-08	1915	-27.5825	153.2592	525,577.5	6,949,019.6	25,586.9	147,818.7	Melaleuca salicina	42	504	
-27.5824291	153.259062	2023-12-08	1916	-27.5824	153.2591	525,569.9	6,949,027.5	25,579.4	147,826.6	Eucalyptus microcorys	72	864	
-27.5824117	153.259048	2023-12-08	1917	-27.5824	153.2589	525,552.7	6,949,026.9	25,562.2	147,826.0	Eucalyptus microcorys	75	900	Hollow
-27.5823619	153.25907	2023-12-08	1918	-27.5824	153.2590	525,566.9	6,949,033.8	25,576.4	147,832.9	Eucalyptus seeana	36	432	Hollow
-27.5824911	153.258968	2023-12-08	1919	-27.5825	153.2590	525,558.8	6,949,020.4	25,568.3	147,819.5	Eucalyptus microcorys	75	900	
-27.5824017	153.258915	2023-12-08	1920	-27.5824	153.2591	525,567.7	6,949,027.9	25,577.2	147,827.0	Corymbia intermedia	50	600	Hollow
-27.5823933	153.258881	2023-12-08	1921	-27.5824	153.2589	525,552.5	6,949,031.4	25,562.0	147,830.5	Lophostemon confertus (brushbox)	70	840	
-27.5825127	153.258682	2023-12-08	1922	-27.5825	153.2587	525,530.5	6,949,020.9	25,539.9	147,820.0	Corymbia intermedia	50	600	
-27.5822602	153.258777	2023-12-08	1923	-27.5822	153.2588	525,540.9	6,949,046.9	25,550.3	147,846.0	Eucalyptus microcorys	58	696	
-27.5821878	153.258801	2023-12-08	1924	-27.5822	153.2588	525,542.6	6,949,054.7	25,552.0	147,853.9	Eucalyptus microcorys	56	672	Hollow
-27.5821782	153.258769	2023-12-08	1925	-27.5821	153.2588	525,541.4	6,949,059.6	25,550.9	147,858.7	Eucalyptus tindaliae	54	648	
-27.5821531	153.258742	2023-12-08	1926	-27.5822	153.2587	525,530.6	6,949,047.5	25,540.1	147,846.6	Corymbia intermedia	50	600	
-27.5821437	153.258558	2023-12-08	1927	-27.5822	153.2585	525,517.9	6,949,056.8	25,527.4	147,856.0	Eucalyptus tindaliae	60	720	
-27.582076	153.258427	2023-12-08	1928	-27.5820	153.2585	525,508.4	6,949,068.9	25,517.9	147,868.0	Eucalyptus tindaliae	62	744	Hollow
-27.5822689	153.258522	2023-12-08	1929	-27.5823	153.2585	525,515.8	6,949,046.1	25,525.2	147,845.2	Eucalyptus seeana	54	648	Hollow
-27.5821785	153.258412	2023-12-08	1930	-27.5823	153.2585	525,510.8	6,949,036.7	25,520.2	147,835.8	Corymbia intermedia	45	540	
-27.5823678	153.258437	2023-12-08	1931	-27.5824	153.2584	525,508.3	6,949,035.0	25,517.7	147,834.1	Corymbia intermedia	47	564	
-27.5824363	153.25838	2023-12-08	1932	-27.5824	153.2584	525,505.2	6,949,026.4	25,514.7	147,825.5	Eucalyptus seeana	45	540	
-27.5823453	153.258199	2023-12-08	1933	-27.5824	153.2582	525,483.1	6,949,034.3	25,492.5	147,833.4	Eucalyptus racemosa	65	780	
-27.5821057	153.258354	2023-12-08	1934	-27.5821	153.2583	525,495.9	6,949,061.7	25,505.4	147,860.8	Eucalyptus microcorys	70	840	Hollow
-27.5821317	153.258118	2023-12-08	1935	-27.5821	153.2581	525,477.7	6,949,065.1	25,487.1	147,864.2	Eucalyptus racemosa	50	849	Hollow
-27.5822595	153.258029	2023-12-08	1936	-27.5823	153.2580	525,468.0	6,949,046.1	25,477.4	147,845.2	Eucalyptus seeana	50	600	Fig
-27.5821374	153.257514	2023-12-08	1937	-27.5821	153.2575	525,417.4	6,949,057.9	25,426.8	147,857.1	Corymbia intermedia	60	720	
-27.5822536	153.257505	2023-12-08	1938	-27.5823	153.2575	525,409.9	6,949,045.5	25,419.3	147,844.6	Eucalyptus racemosa	68	816	Hollows
-27.5822123	153.257357	2023-12-08	1939	-27.5822	153.2574	525,399.9	6,949,049.3	25,409.3	147,848.5	Eucalyptus seeana	68	816	Hollow

-27.5821459	153.257303	2023-12-08	1940	-27.5822	153.2573	525,390.0	6,949,052.9	25,399.4	147,852.0	Lophostemon confertus (brushbox)		52	624	Hollow
-27.582212	153.257144	2023-12-08	1941	-27.5822	153.2571	525,379.9	6,949,050.7	25,389.3	147,849.8	Lophostemon suaveolens (swampbox)		66	792	Hollow
-27.5821894	153.257077	2023-12-08	1942	-27.5822	153.2571	525,375.1	6,949,054.6	25,384.5	147,853.7	Corymbia intermedia		45	540	
-27.5820645	153.257094	2023-12-08	1943	-27.5822	153.2571	525,372.7	6,949,056.4	25,382.1	147,855.5	Corymbia intermedia		40	480	
-27.5822194	153.257011	2023-12-08	1944	-27.5822	153.2571	525,370.7	6,949,054.5	25,380.1	147,853.6	Eucalyptus seeana		42	504	
-27.5821916	153.256983	2023-12-08	1945	-27.5822	153.2570	525,365.5	6,949,053.4	25,374.8	147,852.5	Lophostemon suaveolens (swampbox)		24	288	
-27.5821458	153.257005	2023-12-08	1946	-27.5821	153.2570	525,368.9	6,949,060.6	25,378.3	147,859.7	Corymbia intermedia		27	324	
-27.5821019	153.257009	2023-12-08	1947	-27.5821	153.2570	525,366.3	6,949,062.4	25,375.7	147,861.6	Eucalyptus tindaliae		40	456	
-27.5820565	153.257048	2023-12-08	1948	-27.5821	153.2570	525,367.6	6,949,066.5	25,377.0	147,865.6	Lophostemon suaveolens (swampbox)		24	288	
-27.5820473	153.257034	2023-12-08	1949	-27.5821	153.2570	525,369.1	6,949,067.0	25,378.5	147,866.1	Lophostemon suaveolens (swampbox)		12	144	
-27.5820297	153.257018	2023-12-08	1950	-27.5820	153.2570	525,366.7	6,949,072.4	25,376.1	147,871.5	Lophostemon suaveolens (swampbox)		32	384	
-27.582071	153.257033	2023-12-08	1951	-27.5820	153.2570	525,367.0	6,949,072.9	25,376.4	147,872.0	Corymbia intermedia		52	624	
-27.5820017	153.257065	2023-12-08	1952	-27.5820	153.2571	525,372.1	6,949,077.3	25,381.5	147,876.4	Lophostemon suaveolens (swampbox)		40	865	
-27.5819795	153.257149	2023-12-08	1953	-27.5820	153.2571	525,379.5	6,949,076.7	25,388.9	147,875.8	Corymbia intermedia		37	444	
-27.5820691	153.257155	2023-12-08	1954	-27.5821	153.2571	525,377.7	6,949,067.1	25,387.1	147,866.2	Corymbia intermedia		50	600	
-27.5820489	153.25709	2023-12-08	1955	-27.5821	153.2571	525,379.4	6,949,063.7	25,388.8	147,862.8	Corymbia intermedia		58	696	
-27.5821049	153.257151	2023-12-08	1956	-27.5821	153.2571	525,380.0	6,949,062.7	25,389.4	147,861.8	Corymbia intermedia		52	624	Hollow
-27.5821346	153.257118	2023-12-08	1957	-27.5821	153.2571	525,378.0	6,949,058.7	25,387.4	147,857.8	Lophostemon suaveolens (swampbox)		12	144	
-27.58208	153.257264	2023-12-08	1958	-27.5821	153.2573	525,393.6	6,949,059.5	25,403.0	147,858.6	Lophostemon confertus (brushbox)		64	768	
-27.5819879	153.257239	2023-12-08	1959	-27.5819	153.2573	525,391.4	6,949,084.1	25,400.8	147,883.2	Eucalyptus racemosa		68	816	
-27.581781	153.257454	2023-12-08	1960	-27.5818	153.2574	525,409.7	6,949,096.3	25,419.1	147,895.4	Eucalyptus tindaliae		62	744	Hollows
-27.5820168	153.257555	2023-12-08	1961	-27.5820	153.2576	525,420.3	6,949,078.2	25,429.7	147,877.4	Eucalyptus tindaliae		72	864	Hollow
-27.582253	153.257776	2023-12-08	1962	-27.5820	153.2575	525,418.3	6,949,069.8	25,427.7	147,868.9	Eucalyptus racemosa		38	456	Hollow
-27.5814363	153.25847	2023-12-08	1963	-27.5821	153.2574	525,409.4	6,949,059.7	25,418.9	147,858.8	Eucalyptus racemosa		60	720	Hollow
-27.582124	153.257325	2023-12-08	1964	-27.5821	153.2574	525,404.9	6,949,061.4	25,414.3	147,860.5	Corymbia intermedia		50	600	Hollow
-27.5820014	153.25732	2023-12-08	1965	-27.5821	153.2574	525,402.2	6,949,062.6	25,411.6	147,861.7	Eucalyptus tindaliae		72	864	Hollow
-27.5822549	153.257306	2023-12-08	1966	-27.5823	153.2573	525,393.4	6,949,043.8	25,402.8	147,842.9	Lophostemon confertus (brushbox)		38	456	Hollow
-27.5822912	153.257368	2023-12-08	1967	-27.5823	153.2574	525,400.7	6,949,042.2	25,410.2	147,841.3	Lophostemon confertus (brushbox)		28	336	
-27.5822858	153.257409	2023-12-08	1968	-27.5823	153.2574	525,404.0	6,949,041.4	25,413.4	147,840.5	Corymbia intermedia		30	360	
-27.5823118	153.257588	2023-12-08	1969	-27.5823	153.2576	525,423.2	6,949,038.4	25,432.6	147,837.5	Lophostemon suaveolens (swampbox)		10	120	
-27.5823222	153.257584	2023-12-08	1970	-27.5823	153.2576	525,424.1	6,949,038.3	25,433.5	147,837.4	Lophostemon suaveolens (swampbox)		38	456	Start of fence line trees
-27.5823243	153.257619	2023-12-08	1971	-27.5823	153.2576	525,426.5	6,949,037.4	25,436.0	147,836.5	Lophostemon suaveolens (swampbox)		38	456	
-27.582357	153.257674	2023-12-08	1972	-27.5823	153.2576	525,427.6	6,949,037.2	25,437.0	147,836.3	Lophostemon suaveolens (swampbox)		17	204	
-27.5823432	153.257675	2023-12-08	1973	-27.5823	153.2576	525,428.0	6,949,037.4	25,437.4	147,836.5	Lophostemon suaveolens (swampbox)		30	360	
-27.5823775	153.257745	2023-12-08	1974	-27.5824	153.2577	525,434.2	6,949,032.6	25,443.6	147,831.8	Eucalyptus tereticornis		20	240	
-27.5822438	153.25767	2023-12-08	1975	-27.5823	153.2577	525,434.2	6,949,035.9	25,443.6	147,835.0	Lophostemon suaveolens (swampbox)		22	264	
-27.582405	153.25774	2023-12-08	1976	-27.5824	153.2577	525,437.8	6,949,029.7	25,447.2	147,828.8	Lophostemon suaveolens (swampbox)		9	108	
-27.5823575	153.25795	2023-12-08	1977	-27.5824	153.2580	525,459.4	6,949,032.2	25,468.8	147,831.3	Corymbia intermedia		38	456	
-27.5823343	153.258045	2023-12-08	1978	-27.5824	153.2580	525,464.8	6,949,031.2	25,474.2	147,830.3	Corymbia intermedia		12	144	
-27.5823303	153.257997	2023-12-08	1979	-27.5824	153.2580	525,464.9	6,949,030.4	25,474.3	147,829.5	Lophostemon suaveolens (swampbox)		10	120	
-27.5824047	153.258044	2023-12-08	1980	-27.5824	153.2580	525,466.9	6,949,029.3	25,476.3	147,828.4	Eucalyptus racemosa		68	816	
-27.5824057	153.258082	2023-12-08	1981	-27.5824	153.2581	525,469.0	6,949,027.9	25,478.4	147,827.0	Eucalyptus racemosa		12	144	Hollows
-27.5824172	153.258053	2023-12-08	1982	-27.5824	153.2581	525,468.9	6,949,024.7	25,478.3	147,823.8	Corymbia intermedia		10	120	
-27.5824048	153.258083	2023-12-08	1983	-27.5824	153.2581	525,472.3	6,949,030.0	25,481.7	147,829.1	Corymbia intermedia		20	240	
-27.5824243	153.25815	2023-12-08	1984	-27.5824	153.2581	525,477.2	6,949,026.7	25,486.6	147,825.8	Corymbia intermedia		10	208	
-27.5824617	153.258101	2023-12-08	1985	-27.5824	153.2581	525,477.4	6,949,027.3	25,486.9	147,826.4	Lophostemon suaveolens (swampbox)		17	204	
-27.582413	153.258153	2023-12-08	1986	-27.5824	153.2582	525,480.2	6,949,028.6	25,489.7	147,827.7	Eucalyptus tindaliae	Stringybark	26	312	
-27.5824298	153.258174	2023-12-08	1987	-27.5824	153.2582	525,481.4	6,949,025.6	25,490.9	147,824.7	Corymbia intermedia		10	120	
-27.5824436	153.258178	2023-12-08	1988	-27.5824	153.2582	525,482.3	6,949,027.0	25,491.8	147,826.1	Corymbia intermedia		20	240	
-27.5824411	153.258199	2023-12-08	1989	-27.5824	153.2582	525,484.8	6,949,025.1	25,494.2	147,824.2	Lophostemon suaveolens (swampbox)		10	120	

-27.5824526	153.258203	2023-12-08	1990	-27.5825	153.2582	525,485.2	6,949,024.0	25,494.6	147,823.1	Eucalyptus seeana		10	120	
-27.5824414	153.258212	2023-12-08	1991	-27.5824	153.2582	525,485.3	6,949,026.2	25,494.8	147,825.4	Eucalyptus racemosa		35	420	
-27.5824816	153.258257	2023-12-08	1992	-27.5824	153.2583	525,490.4	6,949,025.0	25,499.8	147,824.1	Corymbia intermedia		60	720	
-27.5824179	153.258243	2023-12-08	1993	-27.5824	153.2583	525,489.9	6,949,026.4	25,499.3	147,825.5	Angophora woodsiana		10	120	Hollow
-27.582454	153.258293	2023-12-08	1994	-27.5824	153.2583	525,493.4	6,949,025.7	25,502.9	147,824.8	Eucalyptus seeana		23	276	
-27.582454	153.258289	2023-12-08	1995	-27.5824	153.2583	525,493.0	6,949,025.1	25,502.4	147,824.2	Eucalyptus seeana		14	168	
-27.5824628	153.2583	2023-12-08	1996	-27.5824	153.2583	525,496.3	6,949,024.6	25,505.8	147,823.7	Eucalyptus seeana		20	240	
-27.5824783	153.258319	2023-12-08	1997	-27.5825	153.2583	525,496.8	6,949,022.9	25,506.2	147,822.0	Corymbia intermedia		32	384	
-27.5824197	153.25837	2023-12-08	1998	-27.5824	153.2583	525,497.7	6,949,025.8	25,507.2	147,824.9	Corymbia intermedia		28	336	
-27.5824419	153.258356	2023-12-08	1999	-27.5824	153.2584	525,499.2	6,949,024.9	25,508.7	147,824.0	Eucalyptus microcorys		23	276	
-27.5824783	153.258382	2023-12-08	2000	-27.5825	153.2584	525,501.0	6,949,023.7	25,510.4	147,822.8	Lophostemon suaveolens (swampbox)		20	240	
-27.5824665	153.258472	2023-12-08	2001	-27.5825	153.2585	525,508.6	6,949,022.2	25,518.0	147,821.3	Eucalyptus microcorys		50	600	
-27.582499	153.258483	2023-12-08	2002	-27.5825	153.2585	525,512.1	6,949,020.0	25,521.6	147,819.1	Corymbia intermedia		10	120	
-27.5824928	153.258523	2023-12-08	2003	-27.5825	153.2585	525,515.2	6,949,021.4	25,524.6	147,820.5	Corymbia intermedia		10	120	
-27.5825203	153.258524	2023-12-08	2004	-27.5825	153.2585	525,516.0	6,949,021.2	25,525.5	147,820.3	Lophostemon suaveolens (swampbox)		10	120	
-27.5824951	153.25851	2023-12-08	2005	-27.5825	153.2585	525,518.0	6,949,021.3	25,527.4	147,820.4	Eucalyptus microcorys		11	132	
-27.5824626	153.258515	2023-12-08	2006	-27.5825	153.2586	525,518.6	6,949,022.1	25,528.1	147,821.2	Eucalyptus racemosa		40	480	
-27.5824638	153.258564	2023-12-08	2007	-27.5825	153.2586	525,521.2	6,949,021.4	25,530.7	147,820.5	Melaleuca salicina		38	456	
-27.5825156	153.258567	2023-12-08	2008	-27.5825	153.2586	525,520.5	6,949,018.4	25,530.0	147,817.5	Angophora woodsiana		16	192	
-27.5824975	153.258557	2023-12-09	2009	-27.5825	153.2586	525,524.0	6,949,020.3	25,533.5	147,819.4	Lophostemon suaveolens (swampbox)		20	240	
-27.5825158	153.258612	2023-12-09	2010	-27.5825	153.2586	525,525.1	6,949,018.5	25,534.6	147,817.6	Corymbia intermedia		11	132	
-27.5823762	153.2587	2023-12-09	2011	-27.5825	153.2586	525,525.7	6,949,020.6	25,535.1	147,819.7	Corymbia intermedia		12	144	
-27.5825109	153.2586	2023-12-09	2012	-27.5825	153.2586	525,527.3	6,949,017.7	25,536.7	147,816.8	Corymbia intermedia		10	120	
-27.5825178	153.258653	2023-12-09	2013	-27.5825	153.2586	525,527.2	6,949,017.6	25,536.7	147,816.7	Corymbia intermedia		23	276	
-27.582508	153.258642	2023-12-09	2014	-27.5825	153.2587	525,531.1	6,949,017.9	25,540.5	147,817.0	Eucalyptus microcorys		10	120	
-27.5825018	153.258671	2023-12-09	2015	-27.5825	153.2587	525,532.2	6,949,017.3	25,541.7	147,816.4	Corymbia intermedia		10	120	
-27.5824953	153.258666	2023-12-09	2016	-27.5825	153.2587	525,531.6	6,949,016.0	25,541.1	147,815.1	Lophostemon suaveolens (swampbox)		8	96	
-27.582484	153.25866	2023-12-09	2017	-27.5825	153.2587	525,532.3	6,949,018.3	25,541.7	147,817.4	Corymbia intermedia		8	96	
-27.5825028	153.258675	2023-12-09	2018	-27.5825	153.2587	525,533.4	6,949,018.1	25,542.9	147,817.2	Lophostemon suaveolens (swampbox)		9	108	
-27.5825456	153.258722	2023-12-09	2019	-27.5825	153.2587	525,536.4	6,949,017.4	25,545.8	147,816.5	Eucalyptus robusta		26	312	
-27.5825242	153.258726	2023-12-09	2020	-27.5825	153.2588	525,540.4	6,949,016.5	25,549.8	147,815.6	Eucalyptus robusta	Swamp Messmate	32	384	
-27.5825261	153.258791	2023-12-09	2021	-27.5825	153.2588	525,545.6	6,949,017.1	25,555.0	147,816.2	Lophostemon suaveolens (swampbox)		20	240	Range in height up to 16 m max along fence line
-27.5825084	153.258822	2023-12-09	2022	-27.5825	153.2588	525,547.2	6,949,017.1	25,556.7	147,816.2	Lophostemon suaveolens (swampbox)		10	120	
-27.5825299	153.258847	2023-12-09	2023	-27.5825	153.2589	525,548.3	6,949,016.4	25,557.8	147,815.5	Eucalyptus microcorys		31.5	378	
-27.5825287	153.258838	2023-12-09	2024	-27.5825	153.2589	525,549.6	6,949,016.7	25,559.0	147,815.8	Eucalyptus robusta		21	252	
-27.5825406	153.258877	2023-12-09	2025	-27.5825	153.2589	525,550.8	6,949,014.3	25,560.2	147,813.4	Lophostemon suaveolens (swampbox)		11	132	
-27.5825639	153.258869	2023-12-09	2026	-27.5825	153.2589	525,551.6	6,949,014.9	25,561.0	147,814.0	Eucalyptus microcorys		26	312	
-27.5825402	153.258873	2023-12-09	2027	-27.5825	153.2589	525,552.0	6,949,015.7	25,561.5	147,814.8	Eucalyptus microcorys		9	258	
-27.5825265	153.258945	2023-12-09	2028	-27.5825	153.2590	525,560.1	6,949,014.9	25,569.6	147,814.0	Eucalyptus racemosa		28.5	342	
-27.582549	153.258991	2023-12-09	2029	-27.5825	153.2590	525,563.0	6,949,013.5	25,572.5	147,812.6	Eucalyptus microcorys		10	120	
-27.5825656	153.259005	2023-12-09	2030	-27.5826	153.2590	525,565.2	6,949,012.2	25,574.7	147,811.3	Eucalyptus microcorys		20	240	
-27.582582	153.25903	2023-12-09	2031	-27.5826	153.2590	525,567.2	6,949,012.2	25,576.7	147,811.3	Eucalyptus robusta		25	300	
-27.5825574	153.259068	2023-12-09	2032	-27.5826	153.2591	525,572.3	6,949,012.5	25,581.8	147,811.6	Melaleuca salicina		22	264	
-27.583217	153.259592	2023-12-09	2033	-27.5831	153.2595	525,613.2	6,948,951.8	25,622.7	147,750.9	Melaleuca quinquenervia		11	132	
-27.5831495	153.259543	2023-12-09	2034	-27.5831	153.2596	525,617.7	6,948,948.3	25,627.2	147,747.3	Melaleuca quinquenervia		8	96	
-27.5831336	153.25955	2023-12-09	2035	-27.5831	153.2596	525,619.3	6,948,947.6	25,628.8	147,746.7	Melaleuca quinquenervia		8	96	
-27.583141	153.259549	2023-12-09	2036	-27.5831	153.2596	525,620.2	6,948,947.5	25,629.7	147,746.6	Melaleuca quinquenervia		8	96	
-27.5831719	153.259598	2023-12-09	2037	-27.5832	153.2596	525,620.8	6,948,946.3	25,630.3	147,745.4	Melaleuca quinquenervia		8	96	
-27.5831598	153.259623	2023-12-09	2038	-27.5832	153.2596	525,624.8	6,948,944.6	25,634.3	147,743.7	Eucalyptus microcorys	Tallowwood	24	288	

-27.5831822	153.259597	2023-12-09	2039	-27.5832	153.2596	525,626.3	6,948,943.1	25,635.8	147,742.2	Eucalyptus robusta		10	120	
-27.5831968	153.259687	2023-12-09	2040	-27.5832	153.2597	525,630.1	6,948,942.0	25,639.6	147,741.0	Melaleuca quinquenervia		8	96	
-27.5832451	153.259721	2023-12-09	2041	-27.5832	153.2597	525,634.3	6,948,937.7	25,643.8	147,736.7	Lophostemon suaveolens (swampbox)		8	96	
-27.583262	153.259701	2023-12-09	2042	-27.5833	153.2597	525,632.2	6,948,934.9	25,641.7	147,734.0	Melaleuca quinquenervia		8	96	
-27.5833062	153.259733	2023-12-09	2043	-27.5833	153.2597	525,635.6	6,948,928.3	25,645.1	147,727.4	Melaleuca quinquenervia		8	96	
-27.5832794	153.259768	2023-12-09	2044	-27.5833	153.2598	525,637.0	6,948,926.9	25,646.5	147,726.0	Lophostemon suaveolens (swampbox)		10	120	
-27.5834088	153.259707	2023-12-09	2045	-27.5834	153.2597	525,631.9	6,948,919.2	25,641.4	147,718.2	Lophostemon suaveolens (swampbox)		8	96	
-27.5833648	153.25964	2023-12-09	2046	-27.5834	153.2597	525,628.2	6,948,920.8	25,637.7	147,719.9	Melaleuca quinquenervia		8	96	
-27.5840264	153.259288	2023-12-09	2047	-27.5840	153.2593	525,588.7	6,948,848.2	25,598.1	147,647.3	Eucalyptus racemosa		40	480	
-27.5840606	153.259235	2023-12-09	2048	-27.5840	153.2593	525,587.5	6,948,847.9	25,596.9	147,646.9	Corymbia intermedia		12	144	
-27.5841073	153.259204	2023-12-09	2049	-27.5840	153.2592	525,583.2	6,948,848.8	25,592.7	147,647.8	Corymbia intermedia		33	396	
-27.5840557	153.259229	2023-12-09	2050	-27.5840	153.2592	525,582.9	6,948,848.1	25,592.4	147,647.1	Eucalyptus seeana		23	301	
-27.5840698	153.25919	2023-12-09	2051	-27.5840	153.2592	525,582.0	6,948,848.6	25,591.5	147,647.6	Eucalyptus robusta		10	120	
-27.584033	153.259197	2023-12-09	2052	-27.5840	153.2592	525,581.8	6,948,849.3	25,591.2	147,648.4	Corymbia intermedia		10	120	
-27.5839866	153.259215	2023-12-09	2053	-27.5840	153.2592	525,581.4	6,948,849.3	25,590.9	147,648.3	Corymbia intermedia		30	360	
-27.5840189	153.25918	2023-12-09	2054	-27.5840	153.2592	525,579.6	6,948,849.6	25,589.1	147,648.6	Corymbia intermedia		10	120	
-27.5840053	153.259151	2023-12-09	2055	-27.5840	153.2592	525,577.7	6,948,849.6	25,587.2	147,648.6	Corymbia intermedia		48	576	
-27.584031	153.259108	2023-12-09	2056	-27.5840	153.2591	525,576.4	6,948,850.3	25,585.8	147,649.3	Eucalyptus racemosa		29	348	
-27.5840154	153.259163	2023-12-09	2057	-27.5840	153.2591	525,576.2	6,948,851.1	25,585.7	147,650.1	Angophora woodsiana		10	120	
-27.584034	153.25913	2023-12-09	2058	-27.5840	153.2591	525,573.6	6,948,850.1	25,583.0	147,649.1	Corymbia intermedia		10	120	
-27.5840364	153.259091	2023-12-09	2059	-27.5840	153.2591	525,572.3	6,948,849.8	25,581.8	147,648.8	Melaleuca salicina		10	208	
-27.5840194	153.259072	2023-12-09	2060	-27.5840	153.2591	525,568.7	6,948,851.4	25,578.2	147,650.5	Lophostemon confertus (brushbox)	Rough Barked Apple	10	170	
-27.5840623	153.25905	2023-12-09	2061	-27.5840	153.2591	525,568.7	6,948,851.2	25,578.1	147,650.3	Corymbia intermedia		10	120	
-27.5840269	153.259057	2023-12-09	2062	-27.5840	153.2590	525,567.1	6,948,851.5	25,576.6	147,650.5	Corymbia intermedia		33	396	
-27.5840229	153.259013	2023-12-09	2063	-27.5840	153.2590	525,566.5	6,948,851.5	25,575.9	147,650.6	Lophostemon suaveolens (swampbox)		10	120	
-27.5840204	153.259023	2023-12-09	2064	-27.5840	153.2590	525,566.4	6,948,852.0	25,575.9	147,651.0	Eucalyptus racemosa		32	480	
-27.5839998	153.258956	2023-12-09	2065	-27.5840	153.2590	525,563.9	6,948,852.1	25,573.4	147,651.2	Eucalyptus racemosa		50	600	
-27.5839848	153.258969	2023-12-09	2066	-27.5840	153.2590	525,562.4	6,948,852.4	25,571.9	147,651.4	Eucalyptus racemosa		10	154	Hollow
-27.584207	153.259205	2023-12-09	2067	-27.5840	153.2589	525,555.4	6,948,853.1	25,564.8	147,652.1	Melaleuca salicina		8	136	
-27.5839918	153.258912	2023-12-09	2068	-27.5840	153.2589	525,553.8	6,948,853.8	25,563.3	147,652.8	Corymbia intermedia		10.5	126	
-27.5839525	153.258881	2023-12-09	2069	-27.5840	153.2589	525,553.2	6,948,854.4	25,562.7	147,653.4	Eucalyptus microcorys		50	600	
-27.5839581	153.258882	2023-12-09	2070	-27.5840	153.2589	525,552.3	6,948,854.2	25,561.8	147,653.2	Eucalyptus racemosa		40	480	Hollow
-27.5839811	153.258831	2023-12-09	2071	-27.5840	153.2589	525,550.0	6,948,854.4	25,559.4	147,653.4	Lophostemon suaveolens (swampbox)		10	120	
-27.5839589	153.258828	2023-12-09	2072	-27.5840	153.2588	525,546.4	6,948,855.9	25,555.9	147,654.9	Lophostemon suaveolens (swampbox)		10	120	
-27.5840258	153.258744	2023-12-09	2073	-27.5840	153.2588	525,543.0	6,948,856.7	25,552.5	147,655.7	Melaleuca quinquenervia		12	144	
-27.5839367	153.258739	2023-12-09	2074	-27.5840	153.2588	525,540.8	6,948,855.9	25,550.2	147,654.9	Eucalyptus robusta		60	720	
-27.5839858	153.258826	2023-12-09	2075	-27.5840	153.2588	525,540.4	6,948,855.5	25,549.9	147,654.6	Corymbia intermedia		23	276	Hollow
-27.5839391	153.258728	2023-12-09	2076	-27.5840	153.2588	525,538.9	6,948,857.1	25,548.4	147,656.2	Lophostemon suaveolens (swampbox)		10	120	
-27.5839203	153.258734	2023-12-09	2077	-27.5840	153.2587	525,536.3	6,948,857.6	25,545.8	147,656.6	Lophostemon suaveolens (swampbox)		9	108	
-27.5839486	153.258738	2023-12-09	2078	-27.5840	153.2587	525,535.8	6,948,857.7	25,545.3	147,656.7	Melaleuca quinquenervia		10	120	
-27.5839156	153.258754	2023-12-09	2079	-27.5840	153.2587	525,535.7	6,948,857.7	25,545.2	147,656.8	Lophostemon suaveolens (swampbox)		9	108	
-27.583938	153.258683	2023-12-09	2080	-27.5840	153.2587	525,534.3	6,948,857.1	25,543.8	147,656.2	Melaleuca quinquenervia		10	120	
-27.5839635	153.258706	2023-12-09	2081	-27.5839	153.2587	525,530.5	6,948,858.5	25,540.0	147,657.6	Eucalyptus racemosa		30	360	
-27.5839362	153.258638	2023-12-09	2082	-27.5839	153.2587	525,527.9	6,948,858.7	25,537.3	147,657.7	Lophostemon suaveolens (swampbox)		10	120	
-27.5838876	153.258584	2023-12-09	2083	-27.5839	153.2586	525,521.3	6,948,864.5	25,530.8	147,663.5	Eucalyptus racemosa		100	1200	
-27.5838606	153.258509	2023-12-09	2084	-27.5839	153.2585	525,515.8	6,948,860.6	25,525.3	147,659.7	Melaleuca quinquenervia		28	336	Massive hollows
-27.5839195	153.258495	2023-12-09	2085	-27.5839	153.2585	525,512.6	6,948,860.9	25,522.1	147,659.9	Lophostemon suaveolens (swampbox)		24	288	
-27.5839058	153.25843	2023-12-09	2086	-27.5839	153.2584	525,507.0	6,948,861.8	25,516.4	147,660.8	Melaleuca quinquenervia		41	492	
-27.5838977	153.258418	2023-12-09	2087	-27.5839	153.2584	525,506.3	6,948,862.0	25,515.8	147,661.0	Lophostemon suaveolens (swampbox)		17	204	
-27.583907	153.258365	2023-12-09	2088	-27.5839	153.2584	525,500.9	6,948,863.1	25,510.3	147,662.1	Melaleuca quinquenervia		50	600	

-27.5839135	153.258353	2023-12-09	2089	-27.5839	153.2583	525,497.8	6,948,863.4	25,507.2	147,662.4	Melaleuca quinquenervia		50	600		
-27.5838768	153.258329	2023-12-09	2090	-27.5839	153.2583	525,495.0	6,948,864.2	25,504.5	147,663.3	Melaleuca salicina		24	480		
-27.5838826	153.258283	2023-12-09	2091	-27.5839	153.2583	525,492.7	6,948,864.5	25,502.1	147,663.5	Melaleuca salicina		24	480		
-27.5839106	153.258289	2023-12-09	2092	-27.5839	153.2583	525,488.8	6,948,865.0	25,498.2	147,664.0	Melaleuca salicina		24	482		
-27.5838872	153.258219	2023-12-09	2093	-27.5839	153.2582	525,486.1	6,948,865.4	25,495.5	147,664.4	Lophostemon suaveolens (swampbox)		23	276		
-27.5838848	153.258192	2023-12-09	2094	-27.5839	153.2582	525,484.5	6,948,865.5	25,494.0	147,664.6	Melaleuca salicina	Willow Bottlebrush	34	408		
-27.5838871	153.25815	2023-12-09	2095	-27.5839	153.2582	525,478.9	6,948,867.2	25,488.4	147,666.2	Melaleuca quinquenervia		10	120		
-27.5837732	153.258052	2023-12-09	2096	-27.5839	153.2581	525,478.2	6,948,867.9	25,487.6	147,666.9	Melaleuca quinquenervia		10	120		
-27.5838648	153.258097	2023-12-09	2097	-27.5839	153.2581	525,476.5	6,948,867.8	25,485.9	147,666.8	Lophostemon suaveolens (swampbox)		10	120		
-27.5838587	153.258119	2023-12-09	2098	-27.5839	153.2581	525,476.3	6,948,867.9	25,485.8	147,666.9	Melaleuca quinquenervia		10	120		
-27.5838739	153.258101	2023-12-09	2099	-27.5839	153.2581	525,475.3	6,948,867.8	25,484.7	147,666.8	Melaleuca quinquenervia		10	120		
-27.5838493	153.258093	2023-12-09	2100	-27.5839	153.2581	525,471.1	6,948,868.9	25,480.5	147,668.0	Lophostemon suaveolens (swampbox)		10	120		
-27.5838425	153.258095	2023-12-09	2101	-27.5839	153.2581	525,470.4	6,948,868.0	25,479.8	147,667.0	Lophostemon suaveolens (swampbox)		10	120		
-27.5838782	153.258076	2023-12-09	2102	-27.5839	153.2581	525,469.7	6,948,868.2	25,479.1	147,667.2	Lophostemon suaveolens (swampbox)		10	120		
-27.5838433	153.258032	2023-12-09	2103	-27.5839	153.2580	525,466.5	6,948,869.1	25,476.0	147,668.2	Melaleuca quinquenervia		50	600		
-27.5838479	153.258025	2023-12-09	2104	-27.5838	153.2580	525,462.2	6,948,869.5	25,471.7	147,668.5	Lophostemon suaveolens (swampbox)		10	120		
-27.5838469	153.258014	2023-12-09	2105	-27.5838	153.2580	525,461.7	6,948,869.7	25,471.1	147,668.7	Lophostemon suaveolens (swampbox)		10	120		
-27.5838362	153.257981	2023-12-09	2106	-27.5838	153.2580	525,460.5	6,948,870.0	25,470.0	147,669.0	Melaleuca quinquenervia		50	600		
-27.5838169	153.257935	2023-12-09	2107	-27.5838	153.2579	525,456.4	6,948,870.6	25,465.9	147,669.6	Melaleuca quinquenervia	Paperbark	50	600		
														Max height eucalypts 30 m	
														Melaleuca 18	
-27.5838218	153.257914	2023-12-09	2108	-27.5838	153.2579	525,452.5	6,948,871.3	25,461.9	147,670.4	Lophostemon suaveolens (swampbox)		12	144	Smaller stuff 10-12 m tall	
-27.5838311	153.257876	2023-12-09	2109	-27.5838	153.2579	525,451.1	6,948,871.5	25,460.5	147,670.6	Lophostemon suaveolens (swampbox)		12	144		
-27.583815	153.257841	2023-12-09	2110	-27.5838	153.2578	525,448.4	6,948,872.5	25,457.8	147,671.5	Eucalyptus racemosa		50	600		
-27.5838349	153.257818	2023-12-09	2111	-27.5838	153.2578	525,446.0	6,948,872.6	25,455.4	147,671.7	Lophostemon suaveolens (swampbox)		12	144	Hollow	
-27.583837	153.257788	2023-12-09	2112	-27.5838	153.2578	525,443.1	6,948,873.3	25,452.6	147,672.3	Lophostemon suaveolens (swampbox)		13	229		
-27.5838052	153.257686	2023-12-09	2113	-27.5838	153.2577	525,431.6	6,948,874.7	25,441.0	147,673.7	Lophostemon suaveolens (swampbox)		0	456		
-27.5837763	153.257616	2023-12-09	2114	-27.5838	153.2576	525,427.4	6,948,878.6	25,436.8	147,677.7	Eucalyptus racemosa		10	120		
-27.5837731	153.257615	2023-12-09	2115	-27.5838	153.2576	525,423.3	6,948,876.8	25,432.8	147,675.9	Eucalyptus racemosa		41	492		
-27.5837799	153.257592	2023-12-09	2116	-27.5838	153.2576	525,422.0	6,948,876.9	25,431.4	147,676.0	Lophostemon suaveolens (swampbox)		18	216		
-27.5837746	153.25761	2023-12-09	2117	-27.5838	153.2576	525,421.7	6,948,876.5	25,431.1	147,675.5	Lophostemon suaveolens (swampbox)		13	156		
-27.5837872	153.257583	2023-12-09	2118	-27.5838	153.2576	525,421.1	6,948,877.0	25,430.5	147,676.0	Lophostemon suaveolens (swampbox)		14	168		
-27.5837904	153.257494	2023-12-09	2119	-27.5838	153.2575	525,414.9	6,948,876.5	25,424.3	147,675.6	Eucalyptus racemosa		75	900		
-27.5837521	153.257497	2023-12-09	2120	-27.5837	153.2575	525,413.3	6,948,881.4	25,422.7	147,680.4	Corymbia intermedia		10	120	Hollow	
-27.5837306	153.257468	2023-12-09	2121	-27.5837	153.2575	525,410.3	6,948,881.9	25,419.7	147,681.0	Lophostemon suaveolens (swampbox)		10	120		
-27.5837479	153.257466	2023-12-09	2122	-27.5838	153.2574	525,408.5	6,948,878.5	25,417.9	147,677.6	Lophostemon suaveolens (swampbox)		18	216		
-27.5837508	153.257429	2023-12-09	2123	-27.5838	153.2574	525,406.5	6,948,878.6	25,415.9	147,677.7	Eucalyptus racemosa		55	660		
-27.5837601	153.2574	2023-12-09	2124	-27.5838	153.2574	525,405.8	6,948,879.1	25,415.2	147,678.2	Lophostemon suaveolens (swampbox)		10	120	Hollow	
-27.5837565	153.257395	2023-12-09	2125	-27.5838	153.2574	525,403.3	6,948,879.6	25,412.7	147,678.6	Lophostemon suaveolens (swampbox)		30	408		
-27.5837541	153.257366	2023-12-09	2126	-27.5837	153.2574	525,400.6	6,948,882.0	25,410.0	147,681.0	Lophostemon suaveolens (swampbox)		10	120		
-27.5837366	153.257309	2023-12-09	2127	-27.5837	153.2573	525,399.2	6,948,881.7	25,408.6	147,680.8	Lophostemon suaveolens (swampbox)		10	120		
-27.5837187	153.25731	2023-12-09	2128	-27.5837	153.2573	525,394.2	6,948,882.2	25,403.6	147,681.3	Lophostemon suaveolens (swampbox)		18	216		
-27.5837473	153.257206	2023-12-09	2129	-27.5837	153.2572	525,385.8	6,948,882.6	25,395.2	147,681.7	Lophostemon suaveolens (swampbox)		11	132		
-27.5837339	153.257216	2023-12-09	2130	-27.5837	153.2572	525,385.3	6,948,883.2	25,394.7	147,682.2	Lophostemon suaveolens (swampbox)		28	376		
-27.5837355	153.257193	2023-12-09	2131	-27.5837	153.2572	525,384.7	6,948,883.1	25,394.1	147,682.2	Lophostemon suaveolens (swampbox)		10	120		
-27.5837297	153.257195	2023-12-09	2132	-27.5837	153.2572	525,384.2	6,948,883.3	25,393.6	147,682.3	Lophostemon suaveolens (swampbox)		17	204		
-27.5837405	153.25719	2023-12-09	2133	-27.5837	153.2572	525,383.6	6,948,883.2	25,393.0	147,682.2	Melaleuca quinquenervia		30	360		
-27.5835523	153.257155	2023-12-09	2134	-27.5837	153.2572	525,380.5	6,948,885.5	25,389.9	147,684.6	Melaleuca quinquenervia		12	1610		
-27.5836759	153.257129	2023-12-09	2135	-27.5837	153.2571	525,378.8	6,948,885.8	25,388.2	147,684.8	Melaleuca quinquenervia		30	406		
-27.5836897	153.257116	2023-12-09	2136	-27.5837	153.2571	525,376.7	6,948,886.1	25,386.1	147,685.2	Melaleuca quinquenervia		24	288		

-27.5837064	153.257088	2023-12-09	2137	-27.5837	153.2571	525,372.9	6,948,885.0	25,382.3	147,684.0	Corymbia intermedia		40	480
-27.5837106	153.257067	2023-12-09	2138	-27.5837	153.2571	525,371.1	6,948,885.3	25,380.5	147,684.4	Eucalyptus racemosa		45	540
-27.5837087	153.25706	2023-12-09	2139	-27.5837	153.2570	525,369.7	6,948,885.2	25,379.1	147,684.3	Lophostemon suaveolens (swampbox)		10	120
-27.583702	153.25707	2023-12-09	2140	-27.5837	153.2570	525,369.4	6,948,885.5	25,378.7	147,684.6	Eucalyptus racemosa		35	437
-27.5837095	153.257036	2023-12-09	2141	-27.5837	153.2570	525,368.9	6,948,886.0	25,378.3	147,685.1	Eucalyptus racemosa		40	480
-27.5837127	153.257022	2023-12-09	2142	-27.5837	153.2570	525,367.7	6,948,886.4	25,377.1	147,685.4	Lophostemon suaveolens (swampbox)		10	120
-27.5837138	153.257008	2023-12-09	2143	-27.5837	153.2570	525,364.3	6,948,886.4	25,373.7	147,685.4	Melaleuca quinquenervia		20	375
-27.5837035	153.25701	2023-12-09	2144	-27.5837	153.2570	525,364.0	6,948,886.8	25,373.4	147,685.9	Eucalyptus seeana		40	480
-27.5837075	153.256979	2023-12-09	2145	-27.5837	153.2570	525,362.7	6,948,887.1	25,372.1	147,686.2	Lophostemon suaveolens (swampbox)		10	120
-27.5837044	153.256973	2023-12-09	2146	-27.5837	153.2570	525,362.4	6,948,886.6	25,371.8	147,685.6	Corymbia intermedia		20	240
-27.5837125	153.256969	2023-12-09	2147	-27.5837	153.2570	525,361.7	6,948,886.4	25,371.1	147,685.5	Lophostemon suaveolens (swampbox)		23	276
-27.5837076	153.256971	2023-12-09	2148	-27.5837	153.2570	525,361.3	6,948,886.6	25,370.7	147,685.6	Lophostemon suaveolens (swampbox)		21	252
-27.5836983	153.256939	2023-12-09	2149	-27.5837	153.2569	525,359.2	6,948,887.5	25,368.6	147,686.5	Lophostemon suaveolens (swampbox)		10	120
-27.5836904	153.256901	2023-12-09	2150	-27.5837	153.2569	525,356.5	6,948,887.8	25,365.9	147,686.8	Corymbia intermedia		38	577
-27.5836838	153.256905	2023-12-09	2151	-27.5837	153.2569	525,354.4	6,948,888.7	25,363.8	147,687.8	Lophostemon suaveolens (swampbox)		16	192
-27.5836814	153.256877	2023-12-09	2152	-27.5837	153.2569	525,353.9	6,948,887.9	25,363.3	147,686.9	Corymbia intermedia		16	192
-27.5836509	153.256806	2023-12-09	2153	-27.5837	153.2568	525,346.9	6,948,889.3	25,356.3	147,688.4	Lophostemon suaveolens (swampbox)		16	192
-27.5836255	153.256965	2023-12-09	2154	-27.5837	153.2567	525,337.6	6,948,890.6	25,347.0	147,689.7	Eucalyptus robusta		0	480
-27.5836618	153.256705	2023-12-09	2155	-27.5836	153.2567	525,336.0	6,948,892.6	25,345.4	147,691.7	Eucalyptus robusta		10	120
-27.5836564	153.25669	2023-12-09	2156	-27.5836	153.2567	525,334.4	6,948,892.2	25,343.8	147,691.3	Eucalyptus robusta		13	190
-27.5836435	153.256579	2023-12-09	2157	-27.5836	153.2566	525,322.6	6,948,893.5	25,332.0	147,692.5	Lophostemon suaveolens (swampbox)		34	408
-27.5836193	153.256583	2023-12-09	2158	-27.5836	153.2566	525,321.2	6,948,893.4	25,330.6	147,692.5	Melaleuca quinquenervia		50	600
-27.5836411	153.256511	2023-12-09	2159	-27.5836	153.2565	525,317.4	6,948,894.1	25,326.7	147,693.1	Lophostemon suaveolens (swampbox)		24	328
-27.583637	153.256477	2023-12-09	2160	-27.5836	153.2565	525,313.8	6,948,894.9	25,323.1	147,693.9	Lophostemon suaveolens (swampbox)		23	276
-27.5836096	153.256438	2023-12-09	2161	-27.5836	153.2564	525,309.5	6,948,895.6	25,318.9	147,694.7	Lophostemon suaveolens (swampbox)		25	300
-27.5836225	153.256384	2023-12-09	2162	-27.5836	153.2564	525,303.9	6,948,896.2	25,313.2	147,695.2	Lophostemon suaveolens (swampbox)		20	240
-27.5836267	153.256379	2023-12-09	2163	-27.5836	153.2564	525,303.4	6,948,896.5	25,312.8	147,695.6	Lophostemon suaveolens (swampbox)		35	420
-27.5848844	153.256196	2023-12-09	2164	-27.5836	153.2563	525,294.0	6,948,898.1	25,303.4	147,697.1	Lophostemon suaveolens (swampbox)		34	408
-27.583571	153.256232	2023-12-09	2165	-27.5836	153.2562	525,289.8	6,948,898.9	25,299.2	147,697.9	Lophostemon suaveolens (swampbox)		24	288
-27.5835616	153.256267	2023-12-09	2166	-27.5836	153.2562	525,289.2	6,948,899.0	25,298.6	147,698.0	Lophostemon suaveolens (swampbox)		21	252
-27.5835635	153.256165	2023-12-09	2167	-27.5836	153.2562	525,285.4	6,948,899.8	25,294.8	147,698.9	Melaleuca salicina	Willow Bottlebrush	30	406
-27.5833977	153.256124	2023-12-09	2168	-27.5836	153.2561	525,279.4	6,948,902.2	25,288.7	147,701.3	Melaleuca quinquenervia		14	168
-27.583565	153.256102	2023-12-09	2169	-27.5836	153.2561	525,276.8	6,948,901.5	25,286.2	147,700.6	Eucalyptus racemosa		40	480
-27.5835533	153.256083	2023-12-09	2170	-27.5835	153.2561	525,276.3	6,948,903.2	25,285.7	147,702.2	Lophostemon suaveolens (swampbox)		15	180
-27.5835423	153.256096	2023-12-09	2171	-27.5835	153.2561	525,276.8	6,948,903.5	25,286.2	147,702.6	Melaleuca quinquenervia		32	410
-27.5835322	153.256096	2023-12-09	2172	-27.5835	153.2561	525,277.2	6,948,904.2	25,286.6	147,703.2	Melaleuca quinquenervia		50	600
-27.5834877	153.256219	2023-12-09	2173	-27.5835	153.2561	525,279.4	6,948,912.8	25,288.7	147,711.9	Melaleuca quinquenervia		36	432
-27.5834285	153.25611	2023-12-09	2174	-27.5834	153.2561	525,279.8	6,948,915.4	25,289.1	147,714.5	Eucalyptus tereticornis		40	480
-27.5834385	153.256116	2023-12-09	2175	-27.5834	153.2561	525,278.0	6,948,916.1	25,287.4	147,715.1	Lophostemon suaveolens (swampbox)		38	456
-27.5834222	153.256115	2023-12-09	2176	-27.5834	153.2561	525,278.6	6,948,917.3	25,287.9	147,716.4	Lophostemon suaveolens (swampbox)		34	408
-27.5834311	153.256118	2023-12-09	2177	-27.5834	153.2561	525,279.9	6,948,917.6	25,289.3	147,716.7	Lophostemon suaveolens (swampbox)		10	120
-27.5833927	153.256134	2023-12-09	2178	-27.5834	153.2561	525,280.4	6,948,920.4	25,289.8	147,719.4	Eucalyptus tereticornis		40	480
-27.5833765	153.256118	2023-12-09	2179	-27.5834	153.2561	525,279.2	6,948,924.1	25,288.6	147,723.1	Lophostemon suaveolens (swampbox)		12	144
-27.5833115	153.256143	2023-12-09	2180	-27.5833	153.2561	525,279.9	6,948,929.6	25,289.3	147,728.6	Melaleuca quinquenervia		78	1099
-27.5832689	153.256166	2023-12-09	2181	-27.5833	153.2561	525,280.6	6,948,932.6	25,290.0	147,731.6	Lophostemon suaveolens (swampbox)		32	384
-27.5832457	153.256147	2023-12-09	2182	-27.5832	153.2562	525,281.4	6,948,936.4	25,290.7	147,735.4	Lophostemon suaveolens (swampbox)		20	240
-27.5832312	153.25615	2023-12-09	2183	-27.5832	153.2562	525,281.8	6,948,938.3	25,291.2	147,737.3	Lophostemon suaveolens (swampbox)		21	252
-27.5832305	153.256148	2023-12-09	2184	-27.5832	153.2562	525,281.6	6,948,939.2	25,290.9	147,738.3	Lophostemon suaveolens (swampbox)		10	120
-27.583216	153.256144	2023-12-09	2185	-27.5832	153.2562	525,281.6	6,948,939.9	25,291.0	147,739.0	Lophostemon suaveolens (swampbox)		24	407
-27.5832	153.256164	2023-12-09	2186	-27.5832	153.2562	525,282.0	6,948,942.6	25,291.4	147,741.6	Lophostemon suaveolens (swampbox)		36	432

-27.5831821	153.256183	2023-12-09	2187	-27.5832	153.2562	525,283.9	6,948,945.7	25,293.2	147,744.7	Eucalyptus seeana		22	264	
-27.5831638	153.256184	2023-12-09	2188	-27.5832	153.2562	525,284.2	6,948,946.9	25,293.6	147,745.9	Melaleuca quinquenervia		40	480	
-27.5831473	153.256181	2023-12-09	2189	-27.5831	153.2562	525,285.1	6,948,948.1	25,294.5	147,747.2	Melaleuca quinquenervia		10	120	
-27.5831401	153.256186	2023-12-09	2190	-27.5831	153.2562	525,284.8	6,948,948.4	25,294.2	147,747.4	Melaleuca quinquenervia		10	120	
-27.5831566	153.256168	2023-12-09	2191	-27.5831	153.2562	525,282.7	6,948,947.8	25,292.1	147,746.9	Lophostemon suaveolens (swampbox)		24	288	
-27.5831368	153.256174	2023-12-09	2192	-27.5831	153.2562	525,283.7	6,948,949.9	25,293.1	147,748.9	Lophostemon suaveolens (swampbox)		12	144	
-27.5831234	153.256177	2023-12-09	2193	-27.5831	153.2562	525,283.4	6,948,951.0	25,292.8	147,750.1	Lophostemon suaveolens (swampbox)		24	288	
-27.5831184	153.256158	2023-12-09	2194	-27.5831	153.2562	525,284.1	6,948,952.3	25,293.4	147,751.3	Lophostemon suaveolens (swampbox)		30	360	
-27.5830813	153.256177	2023-12-09	2195	-27.5831	153.2562	525,283.9	6,948,954.9	25,293.3	147,754.0	Melaleuca quinquenervia		26	461	
-27.5830821	153.256174	2023-12-09	2196	-27.5831	153.2562	525,284.4	6,948,957.3	25,293.8	147,756.4	Lophostemon suaveolens (swampbox)		36	578	
-27.5830442	153.256187	2023-12-09	2197	-27.5830	153.2562	525,284.2	6,948,958.6	25,293.5	147,757.6	Lophostemon suaveolens (swampbox)		12	144	
-27.5830418	153.256188	2023-12-09	2198	-27.5830	153.2562	525,284.4	6,948,959.9	25,293.8	147,759.0	Lophostemon suaveolens (swampbox)		23	276	
-27.5830343	153.256203	2023-12-09	2199	-27.5830	153.2562	525,285.2	6,948,962.0	25,294.5	147,761.0	Lophostemon suaveolens (swampbox)		23	276	
-27.5830477	153.256189	2023-12-09	2200	-27.5830	153.2562	525,284.9	6,948,963.4	25,294.3	147,762.5	Lophostemon suaveolens (swampbox)		12	144	
-27.5829926	153.256202	2023-12-09	2201	-27.5830	153.2562	525,285.5	6,948,965.1	25,294.9	147,764.2	Lophostemon suaveolens (swampbox)		12	144	
-27.5829772	153.256197	2023-12-09	2202	-27.5830	153.2562	525,285.4	6,948,966.6	25,294.8	147,765.6	Melaleuca quinquenervia		36	432	
-27.5829733	153.256191	2023-12-09	2203	-27.5830	153.2562	525,285.7	6,948,967.3	25,295.1	147,766.4	Lophostemon suaveolens (swampbox)		24	288	
-27.5829395	153.256196	2023-12-09	2204	-27.5829	153.2562	525,286.0	6,948,970.6	25,295.4	147,769.7	Lophostemon suaveolens (swampbox)		12	144	
-27.5829408	153.2562	2023-12-09	2205	-27.5829	153.2562	525,286.2	6,948,971.5	25,295.6	147,770.5	Lophostemon suaveolens (swampbox)		34	408	
-27.5829388	153.256195	2023-12-09	2206	-27.5829	153.2562	525,286.1	6,948,971.8	25,295.5	147,770.9	Corymbia intermedia		27	384	
-27.5828835	153.256159	2023-12-09	2207	-27.5829	153.2562	525,286.4	6,948,974.5	25,295.8	147,773.6	Lophostemon suaveolens (swampbox)		25	300	
-27.5828776	153.256204	2023-12-09	2208	-27.5829	153.2562	525,287.6	6,948,977.3	25,296.9	147,776.4	Corymbia intermedia		12	144	
-27.5828904	153.256227	2023-12-09	2209	-27.5829	153.2562	525,287.8	6,948,977.7	25,297.2	147,776.8	Lophostemon suaveolens (swampbox)		10	120	
-27.5828845	153.256219	2023-12-09	2210	-27.5829	153.2562	525,286.9	6,948,977.7	25,296.3	147,776.8	Corymbia intermedia		24	288	
-27.5828634	153.256213	2023-12-09	2211	-27.5829	153.2562	525,287.4	6,948,980.0	25,296.7	147,779.1	Lophostemon suaveolens (swampbox)		12	144	
-27.5828779	153.256207	2023-12-09	2212	-27.5828	153.2562	525,287.6	6,948,981.2	25,296.9	147,780.3	Lophostemon suaveolens (swampbox)		24	288	
-27.5828563	153.256214	2023-12-09	2213	-27.5828	153.2562	525,287.0	6,948,981.3	25,296.4	147,780.4	Corymbia intermedia		33	396	
-27.5828414	153.256213	2023-12-09	2214	-27.5828	153.2562	525,287.9	6,948,984.2	25,297.3	147,783.3	Lophostemon suaveolens (swampbox)		27	324	
-27.5828316	153.25622	2023-12-09	2215	-27.5828	153.2562	525,288.6	6,948,985.2	25,297.9	147,784.3	Lophostemon suaveolens (swampbox)		31	372	
-27.5828147	153.256213	2023-12-09	2216	-27.5828	153.2562	525,288.2	6,948,986.3	25,297.5	147,785.4	Lophostemon suaveolens (swampbox)		11	132	
-27.5828038	153.256216	2023-12-09	2217	-27.5828	153.2562	525,289.3	6,948,987.7	25,298.7	147,786.8	Lophostemon suaveolens (swampbox)		16	192	
-27.5827864	153.256207	2023-12-09	2218	-27.5828	153.2562	525,288.3	6,948,988.3	25,297.7	147,787.4	Lophostemon suaveolens (swampbox)		30	360	
-27.5828551	153.256227	2023-12-09	2219	-27.5828	153.2562	525,288.3	6,948,982.2	25,297.7	147,781.3	Eucalyptus tereticornis	Qld Blue Gum	8	96	
-27.5827599	153.256246	2023-12-09	2220	-27.5827	153.2562	525,290.0	6,948,992.0	25,299.3	147,791.1	Lophostemon suaveolens (swampbox)		30	360	
-27.5827481	153.256246	2023-12-09	2221	-27.5827	153.2562	525,290.2	6,948,992.4	25,299.6	147,791.5	Lophostemon suaveolens (swampbox)		12	144	
-27.582755	153.25626	2023-12-09	2222	-27.5827	153.2562	525,290.0	6,948,992.9	25,299.3	147,792.0	Lophostemon suaveolens (swampbox)		10	120	
-27.5827366	153.256249	2023-12-09	2223	-27.5827	153.2562	525,290.3	6,948,994.9	25,299.7	147,794.0	Lophostemon suaveolens (swampbox)		21	252	
-27.5827244	153.256233	2023-12-09	2224	-27.5827	153.2562	525,289.3	6,948,996.1	25,298.7	147,795.2	Lophostemon suaveolens (swampbox)		40	480	
-27.5828015	153.256361	2023-12-09	2225	-27.5828	153.2564	525,303.8	6,948,987.1	25,313.2	147,786.2	Eucalyptus racemosa		72	864	
-27.583192	153.256312	2023-12-09	2226	-27.5832	153.2564	525,303.4	6,948,944.6	25,312.8	147,743.6	Eucalyptus seeana	Narrow Leaf Red Gum	74	888	Hollow
-27.5834511	153.258123	2023-12-09	2227	-27.5835	153.2581	525,476.4	6,948,913.3	25,485.8	147,712.4	Eucalyptus racemosa		140	1680	Hollow
-27.5837602	153.258613	2023-12-09	2228	-27.5837	153.2586	525,522.6	6,948,882.2	25,532.0	147,681.3	Eucalyptus racemosa		90	1080	Massive hollows
-27.5837437	153.258657	2023-12-09	2229	-27.5837	153.2587	525,528.0	6,948,884.2	25,537.5	147,683.2	Eucalyptus racemosa		90	1080	Hollow
-27.5824466	153.256179	2023-12-09	2230	-27.5837	153.2587	525,535.8	6,948,886.2	25,545.3	147,685.2	Melaleuca quinquenervia		24	288	Hollow
-27.5837305	153.258778	2023-12-09	2231	-27.5837	153.2588	525,538.8	6,948,886.8	25,548.3	147,685.8	Melaleuca quinquenervia		10	120	
-27.5836847	153.258774	2023-12-09	2232	-27.5837	153.2588	525,540.4	6,948,886.9	25,549.8	147,685.9	Melaleuca quinquenervia		26	312	
-27.5837493	153.258774	2023-12-09	2233	-27.5838	153.2588	525,538.0	6,948,880.1	25,547.5	147,679.2	Eucalyptus racemosa		23	276	
-27.5837564	153.258805	2023-12-09	2234	-27.5837	153.2588	525,543.3	6,948,881.5	25,552.8	147,680.6	Eucalyptus racemosa		25	300	
-27.5837347	153.25876	2023-12-09	2235	-27.5837	153.2588	525,541.8	6,948,887.0	25,551.2	147,686.0	Melaleuca quinquenervia		24	333	

-27.5837026	153.258818	2023-12-09	2236	-27.5837	153.2588	525,545.0	6,948,887.9	25,554.4	147,687.0	Melaleuca quinquenervia		20	240	
-27.5837367	153.258842	2023-12-09	2237	-27.5837	153.2588	525,545.6	6,948,888.7	25,555.0	147,687.7	Melaleuca quinquenervia		10	120	
-27.583687	153.25882	2023-12-09	2238	-27.5837	153.2588	525,545.4	6,948,890.4	25,554.9	147,689.4	Melaleuca quinquenervia		28	541	
-27.5836518	153.258862	2023-12-09	2239	-27.5836	153.2588	525,546.8	6,948,891.9	25,556.2	147,690.9	Melaleuca quinquenervia		26	312	
-27.5837053	153.258896	2023-12-09	2240	-27.5837	153.2589	525,549.2	6,948,884.1	25,558.6	147,683.2	Lophostemon suaveolens (swampbox)		12	144	
-27.5837053	153.258886	2023-12-09	2241	-27.5837	153.2589	525,551.4	6,948,885.5	25,560.9	147,684.5	Corymbia intermedia	Pink Bloodwood	16	192	
-27.5836223	153.25886	2023-12-09	2242	-27.5836	153.2589	525,548.2	6,948,896.7	25,557.6	147,695.8	Melaleuca quinquenervia		21	252	
-27.5836231	153.258868	2023-12-09	2243	-27.5836	153.2589	525,548.7	6,948,897.8	25,558.2	147,696.9	Melaleuca quinquenervia		24	425	
-27.5835958	153.258917	2023-12-09	2244	-27.5836	153.2589	525,553.1	6,948,898.6	25,562.6	147,697.6	Melaleuca quinquenervia		9	108	
-27.5835469	153.25888	2023-12-09	2245	-27.5835	153.2589	525,551.5	6,948,905.8	25,560.9	147,704.8	Melaleuca quinquenervia		27	324	
-27.5836144	153.259029	2023-12-09	2246	-27.5836	153.2591	525,567.3	6,948,894.6	25,576.8	147,693.7	Lophostemon suaveolens (swampbox)		17	204	
-27.5835049	153.259117	2023-12-09	2247	-27.5835	153.2591	525,572.3	6,948,911.3	25,581.8	147,710.4	Eucalyptus racemosa		52	624	
-27.5834396	153.259191	2023-12-09	2248	-27.5835	153.2591	525,575.0	6,948,912.3	25,584.5	147,711.3	Lophostemon suaveolens (swampbox)		6	72	Hollow
-27.5834864	153.259157	2023-12-09	2249	-27.5835	153.2591	525,576.4	6,948,911.4	25,585.9	147,710.4	Lophostemon suaveolens (swampbox)		20	240	
-27.5834748	153.259156	2023-12-09	2250	-27.5834	153.2592	525,577.8	6,948,914.0	25,587.3	147,713.0	Melaleuca quinquenervia		12	144	
-27.583416	153.259163	2023-12-09	2251	-27.5834	153.2592	525,578.9	6,948,917.8	25,588.3	147,716.9	Lophostemon suaveolens (swampbox)		10	120	
-27.5833868	153.259155	2023-12-09	2252	-27.5834	153.2591	525,576.6	6,948,918.7	25,586.0	147,717.7	Eucalyptus racemosa	Scribbly Gum	48	576	
-27.5833405	153.259081	2023-12-09	2253	-27.5833	153.2590	525,565.9	6,948,924.7	25,575.3	147,723.8	Melaleuca quinquenervia		30	360	Hollow
-27.5833557	153.259064	2023-12-09	2254	-27.5833	153.2591	525,571.8	6,948,927.7	25,581.2	147,726.7	Lophostemon suaveolens (swampbox)	Swampbox	11	132	
-27.5833178	153.259108	2023-12-09	2255	-27.5833	153.2591	525,570.9	6,948,928.2	25,580.4	147,727.2	Melaleuca quinquenervia		14	168	
-27.5832951	153.259088	2023-12-09	2256	-27.5833	153.2591	525,571.6	6,948,928.7	25,581.1	147,727.8	Melaleuca quinquenervia		14	168	
-27.5833248	153.259057	2023-12-09	2257	-27.5833	153.2590	525,566.8	6,948,928.1	25,576.3	147,727.2	Melaleuca quinquenervia		24	560	
-27.5832716	153.259046	2023-12-09	2258	-27.5833	153.2591	525,569.1	6,948,934.8	25,578.6	147,733.8	Melaleuca quinquenervia		10	120	
-27.5834328	153.258568	2023-12-09	2259	-27.5834	153.2586	525,521.0	6,948,917.0	25,530.5	147,716.1	Melaleuca quinquenervia		24	391	

APPENDIX E
Fauna Species List

Description of the Codes
NCA – Queensland Nature Conservation Act 1992
E - indicates that the taxon is listed as Endangered
V - indicates that the taxon is listed as Vulnerable
NT -indicates that the taxon is listed as Near Threatened
SL - indicates that the taxon is listed as Special Least Concern
C - indicates that the taxon is listed as Least Concern
I - indicates that the taxon is introduced to Queensland and has naturalised.

Common name	Scientific Name	NC Act status
Amphibians		
Cane Toad	*Rhinella marina*	I
Eastern Sedgefrog	*Litoria fallax*	C
Birds		
Australian Brush-Turkey	*Alectura lathami*	C
Australasian figbird	*Sphecotheres vieilloti*	C
Australian Magpie	*Gymnorhina tibicen*	C
Australian White Ibis	*Threskiornis molucca*	C
Australian Wood Duck	*Chenonetta jubata*	C
Bar-shouldered Dove	*Geopelia humeralis*	C
Black-faced Cuckoo-Shrike	*Coracina novaehollandiae*	C
Blue-faced Honeyeater	*Entomyzon cyanotis*	C
Brown Honeyeater	*Lichmera indistincta*	C
Brown Thornbill	*Acanthiza pusilla*	C
Cattle Egret	*Bubulcus ibis*	C
Common Bronzewing	*Phaps chalcoptera*	C
Eastern Whipbird	*Psophodes olivaceus*	C
Eastern Yellow Robin	*Eopsaltria australis*	C
Galah	*Eolophus roseicapilla*	C
Grey Butcherbird	*Cracticus torquatus*	C
Grey Fantail	*Rhipidura albiscapa*	C
Grey Shrike-Thrush	*Colluricincla harmonica*	C
Hardhead	*Aythya australis*	C
Laughing Kookaburra	*Dacelo novaeguineae*	C
Leaden Flycatcher	*Myiagra rubecula*	C
Lewin's Honeyeater	*Meliphaga lewinii*	C
Noisy Miner	*Manorina melanocephala*	C
Magpie-Lark	*Grallina cyanoleuca*	C
Masked Lapwing	*Vanellus miles*	C
Pacific Baza	*Aviceda subcristata*	C
Pale-headed Rosella	*Platycercus adscitus*	C
Pied Butcherbird	*Cracticus nigrogularis*	C
Pheasant Coucal	*Centropus phasianinus*	C
Powerful Owl	*Ninox strenua*	V
Rainbow Lorikeet	*Trichoglossus moluccanus*	C
Red-backed Fairy-Wren	*Malurus melanocephalus*	C
Red-browed Finch	*Neochmia temporalis*	C
Rufous Whistler	*Pachycephala rufiventris*	C

Common name	Scientific Name	NC Act status
Satin Flycatcher	*Myiagra cyanoleuca*	C
Scaly-breasted lorikeet	*Trichoglossus chlorolepidotus*	C
Scarlet Honeyeater	*Myzomela sanguinolenta*	C
Spangled Drongo	*Dicrurus bracteatus*	C
Striated Pardalote	*Pardalotus striatus*	C
Sulphur-crested Cockatoo	*Cacatua galerita*	C
Torresian Crow	*Corvus orru*	C
Torresian Kingfisher	*Todiramphus sordidus*	C
Variegated Fairy-Wren	*Malurus lamberti*	C
Welcome Swallow	*Hirundo neoxena*	C
Whistling Kite	*Haliastur sphenurus*	C
White-browed Scrubwren	*Sericornis frontalis*	C
White-faced Heron	*Egretta novaehollandiae*	C
White-throated Gerygone	*Gerygone olivacea*	C
White-throated Honeyeater	*Melithreptus albogularis*	C
White-throated Treecreeper	*Cormobates leucophaea metastasis*	C
Willie Wagtail	*Rhipidura leucophrys*	C
Yellow-faced Honeyeater	*Caligavis chrysops*	C
Fish		
Mosquitofish	*Gambusia holbrooki*	I
Mammals		
Common Ringtail Possum	*Pseudocheirus peregrinus*	C
European brown hare	*Lepus europaeus*	I
Koala	*Phascolarctos cinereus*	E
Northern Brown Bandicoot	*Isoodon macrourus*	C
Red-necked Wallaby	*Notamacropus rufogriseus*	C
Swamp Wallaby	*Wallabia bicolor*	C
Reptiles		
Dark-flecked Garden Sunskink	*Lampropholis delicata*	C
Eastern Water Dragon	*Intellagama lesueurii*	C
Lace Monitor	*Varanus varius*	C
Scute-snouted Calyptotis	*Calyptotis scutirostrum*	C

APPENDIX F
Threatened Flora and Fauna Likelihood of Occurrence

Conservation significant terrestrial flora and vertebrate fauna species recorded or predicted to occur within a 5 km radius of the study area and their likelihood of occurrence (known, likely, potential, unlikely) within or immediately adjoining the study area.

Abbreviations: NCA = status under the *Nature Conservation Act 1992* (Queensland); **RCC** = Locally significant species; **WN** = Queensland Department of Environment and Science WildNet database search within a 5 km radius of the study area; CE = Critically Endangered; E = Endangered; V = Vulnerable; NT = Near Threatened; M = Migratory; Ma = Marine, SL = Special Least Concern (Migratory or culturally significant); LC = Least Concern; LS = Locally significant; X = species has been recorded within the database search area (Wildnet) or occurrence is predicted by Protected Matters Search Tool if suitable habitat is present (PM).

Likelihood of occurrence categories: Known - from other surveys (BAAM, other consultancies, databases), species recorded onsite; **Likely** to occur – species not known to occur onsite but the site is within the known range of the species, potentially suitable habitat is present and there are either database records for the local region or knowledge of the species occurrence suggests it may occur as a resident or visitor; means 'high potential' or good habitat is present but no species were observed onsite; **Potential** to occur – the site is within the known range of the species and potentially suitable habitat is present but there are no database records for the local region and/or it is a rare, erratic or poorly known species; means 'low potential' or habitat for species is not definitive; **Unlikely** to occur – no suitable habitat present and/or the site is outside of the known range of the species.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Birds						
Accipiter novaehollandiae	Grey Goshawk	LC	LS	X	Wooded habitats, sparse in region - concentrated on Mt Cotton – Sheldon (RCC Planning Scheme Policy 1).	**Potential.** There are wooded habitats on site that may be suitable for the species, and it may rarely visit the study area. There are two local records within 5 km of the study area.
Calyptorhynchus lathami lathami	South-eastern Glossy-Black Cockatoo	V	LS	X	Occupies coastal woodlands and drier forest areas, open inland woodlands or timbered watercourses where its main food trees (Sheoaks) are common. Requires large hollows for nesting (DCCEEW 2022a).	**Likely.** The species is known in the wider landscape and there are two recent (2021) records from 300 m east of the study area. The habitat in the south-east of the study area is modelled by the state as core habitat for the species. Much of this habitat was found to be dominated by Slash Pine and there were few forage trees (*Allocasuarina* spp.) present, although there were some trees with large hollows that may be suitable for nesting. No birds or feeding evidence (orts) were observed during the survey.
Ephippiorhynchus asiaticus	Black-necked Stork	LC	LS		Wetlands, rare visitor (RCC Planning Scheme Policy 1).	**Potential.** Farm dams with cleared edges provide potentially suitable foraging habitat. There have been two records of the species within 5km of the study area since 1980. It may be a rare visitor.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Hirundapus caudacutus	White-Throated Needletail	V		X	In Australia, the White-throated Needletail is almost exclusively aerial, from heights of less than 1 m up to more than 1000 m above the ground. Probably recorded most often above wooded areas, including open forest and rainforest, and may also fly between trees or in clearings, below the canopy, but they are less commonly recorded flying above woodland. Has been recorded roosting in trees in forests and woodlands, both among dense foliage in the canopy or in hollows (DotE 2023d).	**Potential:** This aerial species may occur as a flyover while foraging. No suitable roosting habitat present.
Lewinia pectoralis	Lewin's Rail	LC	LS		Riparian – with cover (RCC Planning Scheme Policy 1).	**Unlikely.** The dams on site lack suitable cover. There are two local records, both from Point Halloran Conservation Area to the east.
Lophoictinia isura	Square-tailed Kite	LC	LS		Eucalypt woodland and open forest, rare (RCC Planning Scheme Policy 1).	**Unlikely.** The site has suitable eucalypt woodland present; however, there is only one record of the species within 5 km of the study area. May occur as a rare visitor.
Melithreptus gularis	Black-chinned Honeyeater	LC	LS		Eucalypt woodland and open forest, occasional visitor (RCC Planning Scheme Policy 1).	**Unlikely.** There are few suitable forested habitat present, and one ALA record within 5 km of the study area from 2015.
Nettapus coromandelianus	Cotton Pigmy Goose	LC	LS		Wetlands, occasional (RCC Planning Scheme Policy 1). A water lily specialist.	**Unlikely.** Western dam has not suitable aquatic vegetation and none of the dams were found to support water lilies to any significant extent. No local records, with the closest being from 8 km to the north-east at Leslie Harrison Dam in 2020.
Ninox strenua	Powerful Owl	V	LS	X	Open forests and woodlands and sheltered gullies in wet forests with dense understoreys, especially along watercourses. Sometimes found in open areas near forests such as farmland, parks and suburban areas. Needs old growth trees to nest (Australian Museum 2023).	**Known.** Evidence of this species was detected during the field assessment. Portions of the study area hold suitable breeding habitats and there are plentiful hollows for its prey species.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Rostratula australis	Australian Painted Snipe	E	LS	X	Generally inhabits shallow terrestrial freshwater wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire; often with scattered clumps of lignum or canegrass or sometimes tea-tree (Commonwealth of Australia 2022b).	**Unlikely**. Dams within the study area have disturbed edges and do not provide suitable vegetative cover for the species. No local records, with the closest being from 8 km to the north-east at Leslie Harrison Dam in 2012.
Stictonetta naevosa	Freckled Duck	LC	LS		Wetlands, rare visitor (RCC Planning Scheme Policy 1).	**Unlikely.** Dams do not provide suitable habitat and no local records. The closest records are to the south in wetlands associated with the Logan River.
Sternula albifrons	Little Tern	S	LS	X	Sandbanks (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present. There are 13 records within 5 km of the study area, although these are mostly associated with coastal habitats.
Tyto tenebricosa	Greater Sooty Owl	LC	LS		Closed forests (RCC Planning Scheme 1)	**Unlikely.** The forest habitats on site have an open to mid-dense structure and there are no local records
Terrestrial Invertebrates						
Acrodipsas illidgei	Illidge's ant-blue butterfly	V	LS		Casuarina glauca and adjacent mangrove areas (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present.
Charopid BR38	A land snail		LS		Eucalypt forest to Woodland containing *Eucalyptus racemosa* on Coastal Sands (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present.
Gyrocochlea myora	Myora Springs Snail		LS		Moist Coastal Forests including Littoral Rainforest (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present.
Ornithoptera richmondia	Richmond Birdwing Butterfly	V	LS		Rainforest associated with *Pararistolochia praevenosa* (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present and no local records.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Frogs						
Adelotus brevis	Tusked Frog	V	LS	X	Found through a broad range of habitats covering open grasslands, large swamps, low woodlands, dry and wet sclerophyll forests and rainforest, in close proximity to slow-moving creeks. Rarely occur above 400m asl. Also recorded in disturbed habitat (ALA 2023)	**Likely.** This species can persist in highly modified environments and the dams provide potential breeding habitats. There are records of this species within the wider landscape, including from 1 km east of the study area in habitats associated with Eprapah Creek. The state maps the bushland in the south-eastern corner and part of the bushland in the central eastern portion of the study area as habitat for the species.
Crinia tinnula	Wallum Froglet	V	LS	X	Found in acidic wetlands (pH 4.3-5.2) within Melaleuca swamps, sedgeland, wet or dry heathland and wallum/woodland areas in the sandy coastal lowlands (<100m asl) of south-east Queensland (DES 2022).	**Unlikely**. The study are does not hold suitable habitat wallum habitats or low pH water required for this species breeding.
Litoria cooloolensis	Cooloola Sedgefrog	NT	LS		Sandy coastal freshwater lakes and stream – North Stradbroke Island	**Unlikely.** No suitable habitat present and no local records.
Litoria freycineti	Freycinet's Frog	V	LS		Open, vegetated coastal swamps and depressions (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat and no local records.
Litoria olongburensis	Wallum Sedge Frog	V	LS		Wallum sedgelands subject to inundation (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable wallum habitats present and no local records.
Mammals						
Petauroides volans	Greater Glider	E		X	Large, contiguous areas of eucalypt open forest containing mature hollow-bearing trees and a diverse range of preferred food species; smaller or fragmented habitat patches connected to larger patches that can facilitate dispersal and/or that enable recolonisation; cool microclimate forest/woodland (DCCEEW 2022b).	**Unlikely.** This species is unlikely to persist or move through the highly fragmented habitat.
Phascolarctos cinereus (SEQ Bioregion)	Koala (SEQ Bioregion)	E		X	Eucalypt forest and woodland, feeding mostly on eucalypts (DAWE 2022).	**Known.** The study area supports suitable forage, shelter and breeding resources for Koala and the species is well known from the local landscape. Evidence of Koala presence was recorded in the study area.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Xeromys myoides	False Water Rat	V	LS		The species occurs in mangroves and the associated saltmarsh, sedgelands, clay pans, heathlands and freshwater wetlands. They require relatively large areas of intertidal flats over which to forage, together with suitable adjacent areas for nest sites (DotE 2023).	**Unlikely.** No suitable habitat present and no local records.
Fish						
Nannoperca oxleyana	Oxleyan Pygmy Perch	V	LS		Pristine watercourses in wallum.	**Unlikely.** No suitable habitat present and no local records.
Non-Threatened Terrestrial migratory species						
Monarcha melanopsis	Black-faced Monarch	S		X	Mainly occurs in rainforest ecosystems, including semi-deciduous vine-thickets, complex notophyll vine-forest, tropical (mesophyll) rainforest, subtropical (notophyll) rainforest, mesophyll (broadleaf) thicket/shrubland, warm temperate rainforest, dry (monsoon) rainforest and (occasionally) cool temperate rainforest. Also occurs in wet-sclerophyll forests, especially in gullies with a dense, shrubby understorey, as well as in dry sclerophyll forests and woodlands, often with a patchy understorey (DotE 2023a).	**Potential.** Potential to occur as a summer visitor to forested habitats in the study area, particularly the more densely vegetated areas.
Monarcha trivirgatus	Spectacled Monarch	S		X	Spectacled Monarchs are mostly found singly or in pairs in low dense vegetation, mainly in rainforests, but also in wet sclerophyll forests and other dense vegetation such as mangroves, drier sclerophyll forests, woodlands, parks and gardens (DotE 2023n).	**Unlikely.** The study site lacks preferred habitat types (i.e. low dense vegetation).
Myiagra cyanoleuca	Satin Flycatcher	S		X	Mostly found in eucalypt forest, favouring wet forests, moist gullies and watercourses. They also occur in eucalypt woodlands with open understorey and grass ground cover, are generally absent from rainforest, and feed on arthropods (mainly insects) and, occasionally, seeds. Generally, the Satin Flycatcher forages singly or in pairs high in the canopy and sub-canopy (DotE 2023o)	**Known.** Suitable habitat is present and an individual was sighted during the field survey.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Rhipidura rufifrons	Rufous Fantail	S		X	Occurs mainly in moist habitats, including mangroves, coastal scrubs, and wet sclerophyll forests, often along watercourses and in gullies dominated by eucalypts, usually with a dense shrubby understorey often including ferns. They also occur in subtropical and temperate rainforests. Occasionally occur in secondary regrowth, following logging or disturbance in forests or rainforests. When on passage, they are sometimes recorded in drier sclerophyll forests and woodlands (DotE 2023b).	**Potential.** Potential summer visitor within the more vegetated portions of the study area though visitation would be occasional with their occurrence based on suitable proximate vegetation on adjoining lands.
Wetland migratory species						
Pandion haliaetus cristatus	Eastern Osprey	S		X	Occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They require extensive areas of open fresh, brackish or saline water for foraging (DotE 2023c).	**Unlikely.** No suitable habitat on site and the study area is not proximate to major waterbodies.
Plants						
Acacia baueri subsp. *baueri*	Tiny Wattle	V	LS		Low dry to moist wallum heath (RCC Planning Scheme Policy 1), and on infertile and often seasonally waterlogged sands in coastal heath (wallum) habitat and adjacent plateaus and low open woodland (DES Species Profile)	**Unlikely.** This species was not detected and there is no suitable habitat. There are no local records.
Blandfordia grandiflora	Large Christmas Bells	E	LS		Moist to Wet Wallum Heath (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present.
Corchorus cunninghamii	Native Jute	E	LS	X	Occurs in the ecotone of wet sclerophyll forest and dry to dry-subtropical rainforest (e.g. araucarian microphyll vine forest), and in Hoop Pine (*Araucaria cunninghamii*) plantations. It often occurs on hill crests, exposed slopes, ridges or upper slopes of hilly terrain on south or south-east aspect. It also occurs on sheltered slopes, gullies and on lower slopes, depending on the topographic position of the sclerophyll-rainforest margin (DotE 2023d)	**Unlikely**. This species was not detected, and there is no suitable habitat present.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Durringtonia paludosa	Durringtonia	NT	LS		Wet Wallum Heath and on Margins of Swamp Sclerophyll Forest *E. robusta* (RCC Planning Scheme Policy 1).	**Unlikely.** Species was not detected, habitats are unsuitable and there are no local records.
Eleocharis difformis	Submerged Spikerush	E	LS		Submerged aquatic plant in Perched and Window Lakes restricted to Lacustrene wetlands 12.2.15a and 12.2.15f (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable habitat present and no local records.
Leichhardtia longiloba (previously Marsdenia longiloba)	Clear Milkvine	V	LS		Clear Milkvine grows in open eucalypt forest, or margins of subtropical and warm temperate rainforest, and in areas of rocky outcrops (TSSC 2008).	**Unlikely.** This species was not detected and there is no suitable habitat, due to past and ongoing agricultural activities and weed invasions.
Leichhardtia coronata (previously Marsdenia coronata)	Slender Milkvine	V	LS		Commonly found in open eucalypt forest and woodland communities on hillslopes and ridge tops at altitudes of 40–780 m above sea level. Also known from rocky outcrops along cliff lines. Most commonly recorded with Eucalyptus, E. carnea, Corymbia citriodora, C. henryi, Eucalyptus acmenoides and E. propinqua. (TSSC 2013).	**Unlikely.** This species was not detected and there is no suitable habitat, due to past and ongoing agricultural activities and weed invasions.
Macadamia integrifolia and *Macadamia tetraphylla*	Macadamia Nut	V	LS	X	These species often occupy ecotonal habitat, particularly between rainforest and sclerophyll forests, preferring well-drained fertile soil and open areas, such as rainforest edges (DotE 2023e; 2023f).	**Unlikely.** The site does not provide suitable habitat for this species to occur naturally. A mature planted (not in the wild) individual was detected around a residential dwelling on Lot 14 in association with other introduced fruit trees.
Maundia triglochinoides	Maundia	V	LS		Wetlands including Paperbark Swamps Found at Karawatha and Woodforde in high quality habitat (RCC Planning Scheme Policy 1).	**Unlikely.** No high-quality wetland habitat present and no local records.
Melaleuca irbyana	Swamp Tea-tree	E	LS		Woodland to Open forests on plains to riparian areas particularly on sedimentary soils LZ 10 (RCC Planning Scheme Policy 1).	**Unlikely.** Suitable riparian habitat is present in the southeast portion of the site; however there are no local records and the species was not detected on site.
Persicaria elatior	Glandular Knotweed	V	LS		Wetlands and Swamp Forests (RCC Planning Scheme Policy 1).	**Unlikely.** Suitable habitat conditions may be present around Eprapah Creek and the more vegetated dams, but there are no local records and the species was not detected on site.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Phaius australis	Lesser Swamp-orchid	E	LS		Commonly associated with coastal wet heath/sedgeland wetlands, swampy grassland or swampy forest and often where Broad-leaved Paperbark or Swamp Mahogany are found. Typically restricted to the swamp-forest margins, where it occurs in swamp sclerophyll forest (Broad-leaved Paperbark/Swamp Mahogany/Swamp Box (Lophostemon suaveolens)), swampy rainforest (often with sclerophyll emergents), or fringing open forest. It is often associated with rainforest elements such as Bangalow Palm (Archontophoenix cunninghamiana) or Cabbage Tree Palm (Livistona australis) (DotE 2023g).	**Unlikely.** This species was not detected. Whilst some suitable habitat is on site, the ground stratum is highly disturbed and there are no historical records within or surrounding the study area.
Phaius bernaysii	Yellow Swamp Orchid	E	LS		Swamp Forests especially those with rainforest elements in understorey where fires are less intense (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable wetlands present and no local records.
Prasophyllum exilis	Thin Leek Orchid	E	LS		Swamp Forests especially those with rainforest elements in understorey where fires are less intense (RCC Planning Scheme Policy 1).	**Unlikely.** No suitable wetlands present and no local records.
Pterostylis chaetophora	Bug Lipped Greenhood Orchid	E	LS		Grassy and shrubby areas in open forest and woodland known from Cedar Ck Falls Near Mt Tamborine and Coochiemudlo Is (RCC Planning Scheme Policy 1).	**Unlikely.** Whilst some suitable habitat is on site, the ground stratum is highly disturbed and there are no historical records within or surrounding the study area.
Rhodomyrtus psidioides	Native Guava	CE		X	Habitat is likely to include the following vegetation types: Subtropical Rainforests, Warm Temperate Rainforests, Littoral Rainforest, and Wet Sclerophyll Forests). The species may be found in the adjoining margins of sclerophyll vegetation associated with any of these rainforest formations. Known to occur from Gosford in NSW to Maryborough in QLD (TSSC 2020).	**Unlikely**. This species was not detected and there is no suitable habitat.
Schoenus scabripes	Rough Bog Sedge	LC	LS		Wallum Heath to Woodland and Wet Wallum (RCC Planning Scheme Policy 1).	**Unlikely**. No suitable habitat present and no local records.
Thelypteris confluens	Marsh Fern	V	LS		Swamps and Wetlands in Coastal Dunes (RCC Planning Scheme Policy 1).	**Unlikely**. No suitable habitat present and no local records.

Species	Common name	NCA	RCC	WN	Preferred habitat characteristics	Likelihood of occurrence
Thesium australe	Toadflax	V	LS		Semi-parasitic on roots of a range of grass species, notably Kangaroo Grass (Themeda triandra). occurs in subtropical, temperate and subalpine climates over a wide range of altitudes. It occurs on soils derived from sedimentary, igneous and metamorphic geology on a range of soils including black clay loams to yellow podzolics and peaty loams. Occurs in shrubland, grassland or woodland, often on damp sites (DotE 2023h).	**Unlikely.** This species was not detected. Whilst some suitable habitat is on site, the ground stratum is highly disturbed and there are no historical records within or surrounding the study area.

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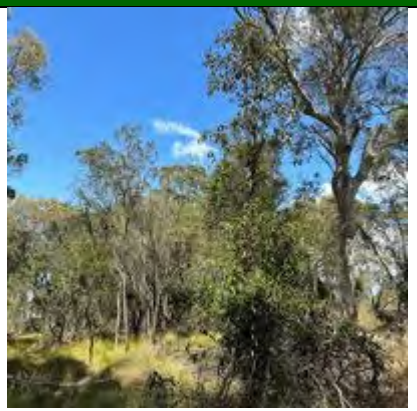
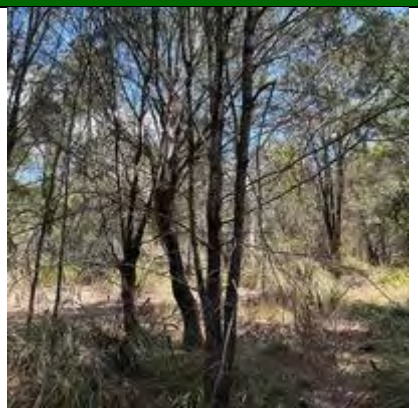
APPENDIX G

Habitat Value Investigation Area and Eprapah Creek Corridor

Figure G1. Habitat Value Investigation Area Location Details

Figure G2. Eprapah Creek Location Details

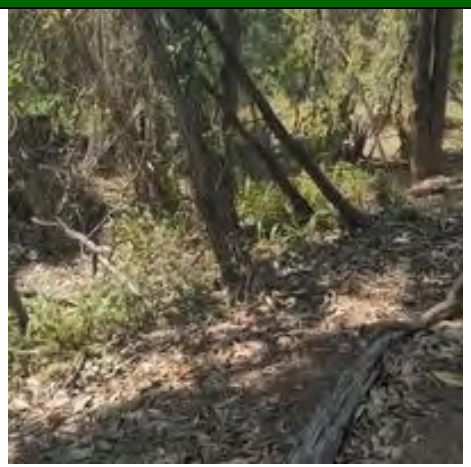
Table G1. South Thornlands PDA Precinct 1 – Habitat Value Investigation Area & Eprapah Creek

Site Details & Comments	Representative Photos
1. -27.579127, 153.261366 This area does not hold any large or hollow bearing scribbly gums. There is regrowth, scribbly, gums and *Lophostemon confertus* occasional *Melaleuca quinquenervia* and *Allocasurina littoralis.* There is one scribbly gum with medium size hollows.	 North East  South  West
2. -27.579072, 153.260565 This area is entirely dominated by regrowth *Allocasurina littoralis* There are no large trees in the central portions. *Allocasurina littoralis* is dominant with occasional acacia species. This area has a good native ground layer coverage with weeds very sparse. An existing track traverses through this location.	 North East South West

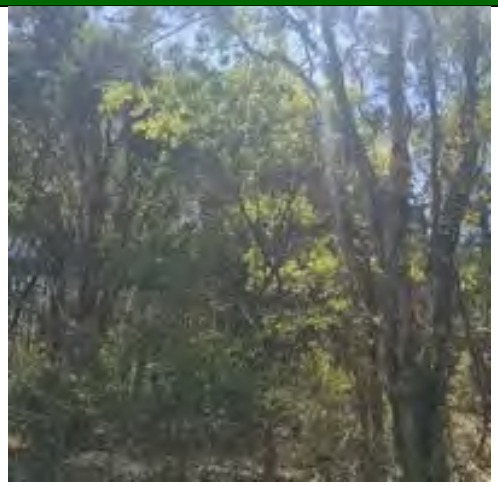
Site Details & Comments	Representative Photos
3. -27.579227, 153.259889 This area is completely dominated by *Allocasurina littoralis* regrowth with occasional Eucalypt regrowth occurring. Low value as Koala habitat other than for potential movement. Prior disturbances are evident in this area.	 North East West
4. -27.578360, 153.259922 Edge of the habitat investigation area showing the presence of the Cocos palms a recognised environmental weed.	

Site Details & Comments	Representative Photos			
5. -27.578654, 153.259282 Creek corridor – This area has Lantana, Blue Billy Goat, and dense patches of Signal grass. The area is relatively disturbed, and restoration would provide considerable outcomes.				
6. -27.578700, 153.259175 This area is the drainage area from the dam heading out through the investigation area. The under storey is dominated by exotic grasses and blue billy goat weed. *Melaleuca quinquenervia* is present and the most common species. The area also contains *E. teritorcornis* in association with *Melaleuca.* Prior disturbances are associated with drainage improvements away from the site.	 North	 East	 South	 West

Site Details & Comments	Representative Photos
7. -27.578356, 153.259103 Ochna, Lantana, Corky Passion Vine, Guinea Grass on edge of investigation area is associated with prior disturbances.	
8. -27.578885, 153.258882 Old track, area showing prior disturbances and extent of Lantana.	

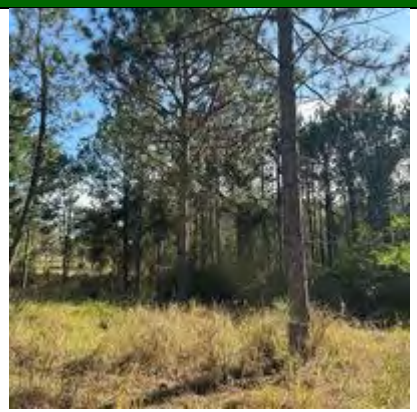
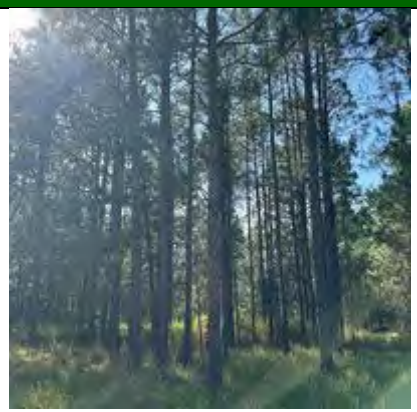
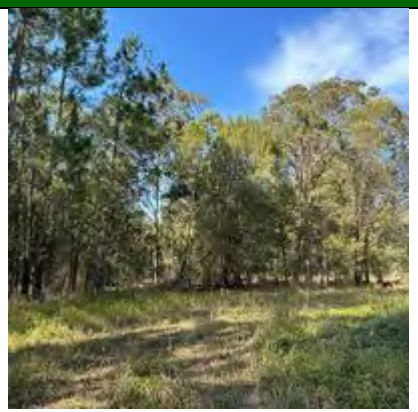
Site Details & Comments	Representative Photos
9. -27.579191, 153.258882 This area contains significant levels of exotic pest species and environmental weeds. Species present include Monstera, Umbrella Tree, Ochna, Murraya, Cocos Palms and Fishbone Fern.	
10. -27.579192, 153.258865 Edge of small dam. There has been prior disturbance and several tracks in this location where there are some medium size, Blue Gums, and Scribbly Gums up to 14 m in height. Small patches could qualify as remnant but would not be large enough to be mapped. There is a patch of *M.quinquenervia* on the western side of the dam. The understory is more disturbed in the areas to the east.	North East South West

Site Details & Comments	Representative Photos
11. -27.579237, 153.258620 Existing dam, this area shows considerable prior and ongoing disturbances. Considerable weeds present in this area.	
12. -27.579453, 153.258510 Old Stag tree retained here. One of the few old growth trees retained in the area.	

Site Details & Comments	Representative Photos
13. -27.578846, 153.258265 Lantana, Camphor Laurel, Broadleaf Pepper, Signal Grass, Celtis and Cocos Palms dominate.	
14. -27.578677, 153.258532 Evidence of prior and ongoing disturbances. Several environmental weeds present including ground Asparagus, Lantana, Brazilian Nightshade, Camphor Laurel, and Pink Polkadot weed.	

Site Details & Comments	Representative Photos
15. -27.578563, 153.258530 This area has been used for motorbike activities and contains a pit filled with foam for safety. There is also old tyres and other items which would be removed as part of the proposed Nature Play Park. .	
16. -27.578395, 153.258754 This area is entirely dominated by *Lophostemon* regrowth with an occasional Melaleuca. There is Ochna and Coccus Palms as well as introduced grasses, Murraya and Lantana in the understory.	North East South West

Site Details & Comments	Representative Photos
17. -27.578285, 153.258649 Ochna, Murraya, Lantana and Umbrella trees here.	
1. -27.583632, 153.260342 Weeds dominate in this location. Lantana, Ochna, non-native grass, Cestrum.	

Site Details & Comments	Representative Photos
2. -27.583685, 153.259322 This area is entirely dominated by exotic species, 99% pine and occasional Umbrella tree. There are a couple of native trees along the southern boundary. This area is an ideal location for removal of the Pines and restoration activities.	 North  East  South West
3. -27.583569, 153.259010 Slash pines dominant, the understorey contains Lantana, Singapore Daisy, and non-native grass.	

Site Details & Comments	Representative Photos
4. -27.583875, 153.258878 Goanna scratches on scribbly gum.	