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APPLICATION REF

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ATTACHMENT 8

Ecological Assessment
Report prepared by 28
South Environmental



Mt Coot-tha – Lumina Night Walk

Ecological Assessment Report



29 July 2022

Report prepared for Place Design Group on behalf of Light
Dreaming Pty Ltd

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1 Introduction

1.1 Background

28 South Environmental Pty Ltd (**28 South**) have been engaged by Light Dreaming Pty Ltd (**Applicant**) to prepare an Ecological Assessment Report (**EAR**) in support of a Development Application (**DA**) for Material Change of Work (**MCU**) for a proposed Lighting Entertainment Display (referred to herein as ‘the **Display**’) at the Mt Coot-tha Botanical Gardens (**MBG**).

1.2 The Lumina Night Walk (Display)

The proposed Display will establish an outdoor immersive experience created by night-time light and sound show(s) that delivers a narrative around the local environment, culture and community. The Display is called a *Lumina Night Walk*¹ and periodically brings natural environments to life at night.

It is important to understand the parameters around the Display in order to properly assess the use. To that end, the follow key elements to the Display are noted and relied upon within this reporting:

- The Display will be centrally located within the MBG, generally confined by those topographically lower areas within the MBG Living Collection area defined by the Ring Road, Café, Tropical Display Dome and car parking areas to the east (refer to **Figure 1**).
 - o The extent of the Display as noted above and shown within **Figure 1** is referred herein as the **Display Area**.
 - o The Display Area was (Living Collection) was planted in the early 1970s. It is comprised of exotic vegetation displaying over 5000 species of plants from around the world, where plants subtly change based on themes and geographic locations.
 - o The Display Area is not a natural setting and as such not comparable to remnant native vegetation associated with the Mt Coot-tha complex. This is supported by the lack of State and Local Government Statutory Biodiversity

¹ For examples of the 12 Lumina Night Walks around the world, please follow this link – www.momentfactory.com/lumina/en

Mapping which has mapped other areas in the MBG that support native communities.

- The drainage feature located centrally through the Display Area is comprised of concrete and rock retaining walls creating a series of artificial ponds and waterways which are feed by recycled pump water to create an unnatural permanent water source.
- It is understood that the proposed Display will operate approximately 120-150 evenings of the year (between c.32-41% of the year and subject to inclement weather, this frequency may be reduced).
- It is understood that on those days of operation; operational hours are limited to c. 3 hours (c.7-10pm). Brisbane averages 12.2hrs of night (June 2022 = c.13hrs 30mins, December 2021 = c.10hrs)², thus on average the Display would operate over approximately c.32-41% of the year, of which, only c.24% of the nocturnal period would see operation. This equates to c.9.84% of nocturnal periods, at a maximum (e.g. 150 nights).
- The Display will not involve any Bulk Earthworks or create new areas of physical disturbance.
- The Display will not involve the complete removal of any trees and will limit any pruning works to a minimum. All pruning works will be assess and approved by the Brisbane City Council (**BCC**) Gardens Curator and a Level 5 consulting Arborist.
- The Display will utilise the existing footpaths through the central areas of the MBG. No new pathways will be established (noting the significant volume of existing tracks through the area which the Display is confined to shown on **Figure 1**).
- The Display will utilise existing sheds and ancillary facilities where possible. Where no infrastructure exists (e.g. small sheds) there will be a need erect temporary, portable shelters to hold electronic equipment. Electrical wiring will be collocated in disturbed, managed areas of the Display Area to avoid the need to excavate large trenches. Lights which create each Station will be carefully appended to tree limbs, or placed on erected cabling, netting or the ground. Path lighting will be similarly located along

² http://www.bom.gov.au/climate/averages/tables/cw_040913.shtml

pathways or tree limbs and be directional in nature to ensure limited light spill falls beyond the footpath.

- Connecting electrical cabling will be run via conduits throughout the Display; however, will be either sensitive trenched in (shallow trenching only to cover conduit) under the supervision of the MBG Curator and a level 5 consulting Arborist or laid above ground.
- The Display will traverse approximately 1 km of the existing tracks. The location of the initial Display is shown on **Figure 1** has been utilised for the purposes of this reporting and the broader Application.
 - o Regardless of the Displays ultimate location, the principles of the Display and the premise of this assessment do not change (refer to above dot points) and the entire Display Area and its use is assessed as a whole.
- The intended Display has approximately 10 Stations (subject to detailed design). A Station is a location where the lighting/ noise sensory shows are focused and accessed by patrons on foot by traversing the defined/ designated pathway.
- Stations are generally equidistantly separated to ensure that the effects of each Station do not impact other stations (e.g. noise cross over). As such, noise limits outward of each Station, and ultimately the Display Area, will quickly diminish to existing background levels. It is important to note this element, otherwise noise cross over would significantly impact other components of the Display, ultimately impacting the quality of the patron experience and diminishing its viability as an experience. As such, noise spill into adjoining areas from the display is not significant and generally limited to the distance between each Station.
 - o It is important to note that in practice, existing road traffic noise will generally mask any noise from the event to the surrounding residential areas. This indicates that noise impacts will not travel into remnant vegetation communities adjoining the MBG.
 - o Refer to **Figure 2** for an example of the noise generated from the Display spatially across the MBG based on an estimated 10 Stations.
- Stations have been assessed for noise by assuming all speakers are operating simultaneously and to be reinforcing each other. A conservative approach to noise assessment to predict normalized source levels to generic spectra for amplified music

has been completed to meet the Liquor Licensing Guideline. Similar to urban precincts throughout the locality, this level of noise is readily habituated to by common, robust fauna which are expected to reside in the MBGs.

- Lights utilised at each station and along the Display pathways will be carefully sited, aimed and blinkered such that only the internal canopy and features at a Station are illuminated (no lasers or lights will be utilised that travel well beyond the Station) while the pathways will be illuminated by controlled and low-level lighting to avoid light spill outside of the Display itself.



Figure 1 – MBG Display Area, Existing Tracks, Display Alignment

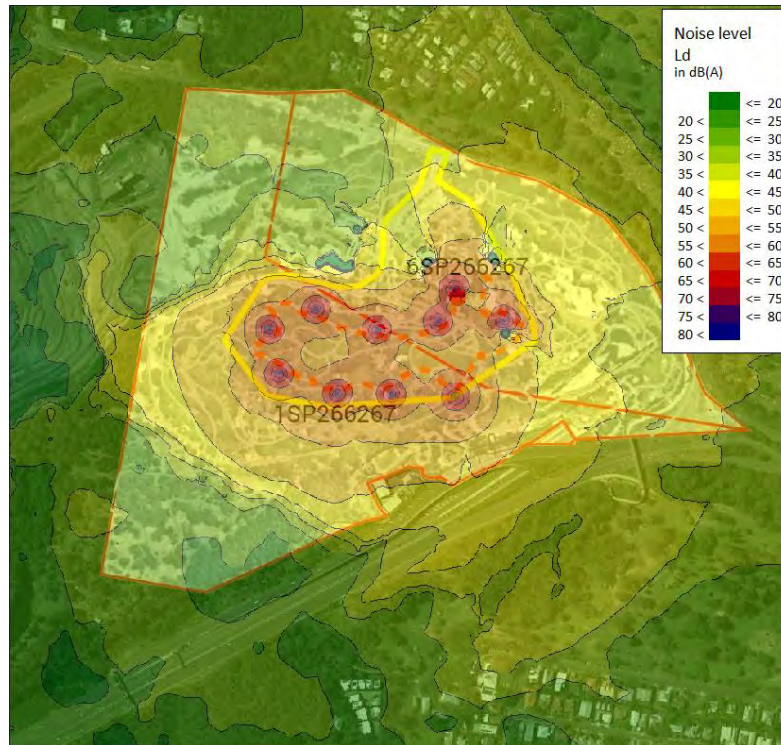



Figure 2 – Example of a Display with 10 Stations and Noise Generation

1.3 Mt Coot-tha Botanical Gardens

The original Botanic Gardens were located within the City itself; however, after numerous historical flooding events impacting the original gardens, BCC elected to create another new, flood free Botanical Gardens. The MBG was the chosen site given its proximity and flood free attributes. The Site has been subject to historical clearing, earthworks, damming of drainage features and establishment of the Botanical Gardens Living Collection, Australian Plant Communities Collection and facilities from 1970 onwards, with the MBG officially opening in 1974.

The landholdings of the MBG covers approximately 56 hectares (**ha**) of manicure gardens and features more than 200,000 plants representing approximately 5000 species from around the world. The MBG is located approximately five (5) kilometres (**km**) west of Brisbane City and is sited on the lower eastern foothills of Mt Coot-tha, just below the Mt Coot-tha rock Quarry (refer **Attachment 1**). A mixture of existing urban development, major highway, parkland, cemetery, quarry immediately surround the MBG (**Attachment 2**), while contextually it sits as the eastern most with the Mt Coot-tha Forest. The proposed Display Area is generally located over approximately 4 ha or less and confined to the Living Collection Area (**Figure 1**). Car parking for the Display will be co-located with BCC parking at the MBG or other council parking facilities nearby. A brief synopsis of historical aerial photography is provided below in **Table 1**.

Table 1 – Brief Historical Aerial Analysis (red arrow indicates MBG location)

Year and Image	Brief Analysis
<div data-bbox="210 357 309 400" style="border: 1px solid black; padding: 2px;">1946</div> 	<p>The earliest publicly available aerial imagery dates to 1946, which illustrates that the MBG remains in a largely vegetated state; however, it is evident that clearing around the lower areas proximate to Mt Coottha Road has occurred as well as vegetation thinning or removal on higher slopes, while steeper southern facing slopes remain intact. It is noted that the adjoining quarry to the north is well established at this time; while the adjoining low density urban development has largely been established throughout the adjoining suburbs of Bardon, Auchenflower and Taringa. The adjoining Toowong Cemetery has been largely cleared and established by 1946, which adjoins the MBG to its north-east.</p>

1958



Imagery from 1958 illustrates that the MBG locality has not been subject to significant change over period between 1946 and 1958. It is notable that the adjoining quarry has significantly expanded its footprint. Continued in-fill development in the suburbs to the north, east and south is evident

1971



The 1971 aerial image illustrates significant urban development has continued to occur within the locality. It is also notable that the road to the Mt Coot-tha peak has been constructed, with numerous Television towers and stations having been constructed along the higher ridge line. The adjoining quarry has continued to expand westward and become deeper. Clearing and construction of the Western Freeway/ Centenary Motorway has commenced separating ANZAC Park in the south of the MBG allotments to the south and the future MBG facilities / living collection to the north. Further clearing for vehicle access and linear infrastructure is apparent throughout the central and western areas of the MBG.

1981



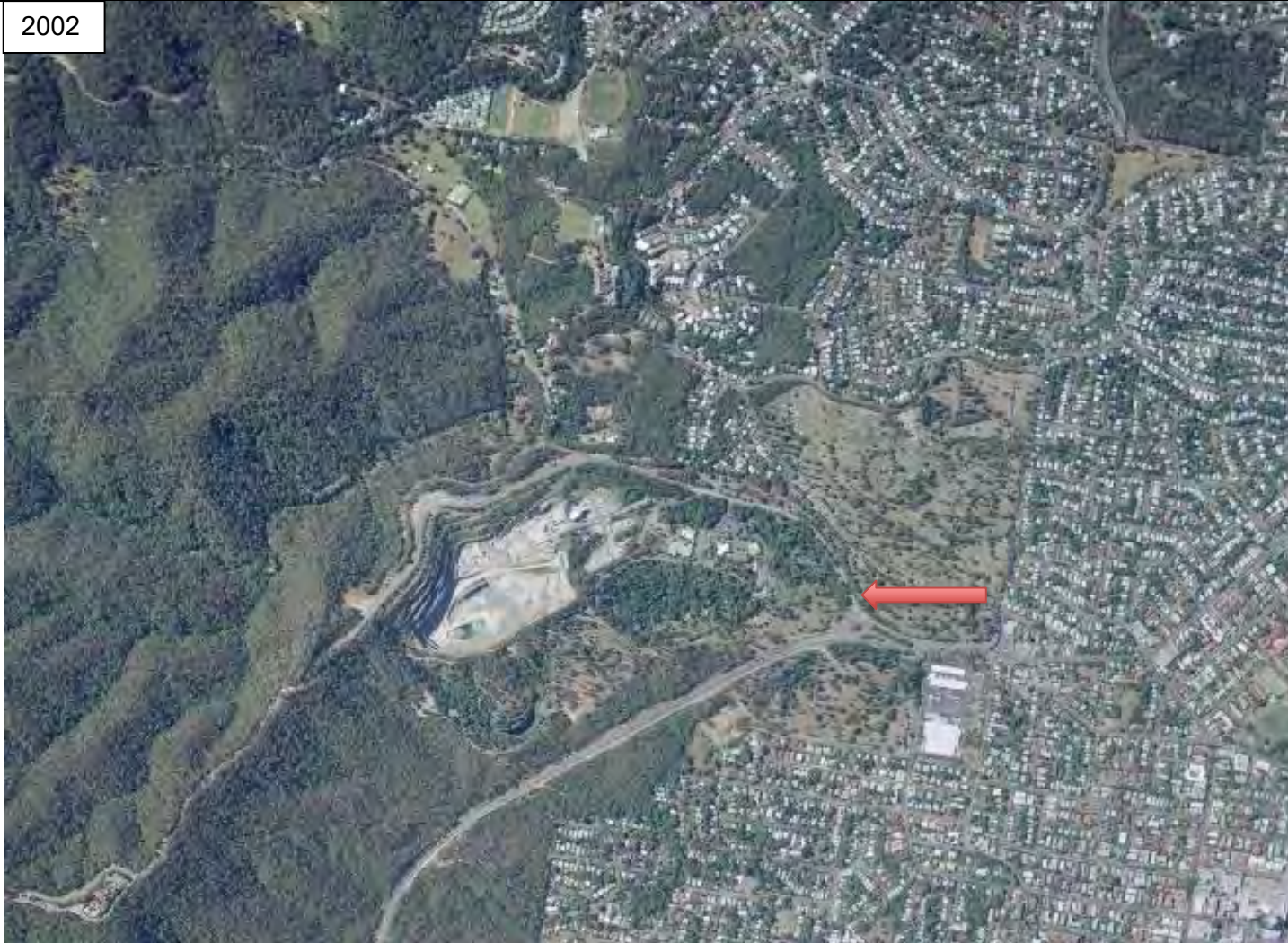
The 1981 aerial illustrates that the MBG has well and truly been established and is operating as a council asset. Through establishing the MBG, much of the areas relict vegetation has been removed over the 70s, replaced with MBG infrastructure (e.g. observatory, visitors centre, tropical display dome, tracks/ trials, a chain of dams along the central waterway feature of the Site and the inception of the eastern lagoon. It is apparent that the MBG has begun the process of establishing its Living Collection which is largely confined to the internal ring road. Other MBG facilities such as playgrounds and picnic areas are yet to be established. The Western Freeway/ Centenary Motorway has been constructed in is in use, while the continuation of the adjoining quarry is evident.

1990



The 1990 imagery of the MBG and surrounds illustrates that substantive growth within the Living Collection area has occurred. It is evident from the lack of visibility of the chain of ponds which the Living Collection has been planted around. More clearing at the rear (west) of the internal loop road is evident, presumably for further expansion of the Living Collection displays and gardens generally. Other MBG facilities such as playgrounds and picnic areas are yet to be established. More broadly, the continuation of urban development continues to in-fill the locality, with new subdivisions or medium/ high density buildings now visible.

2002



The 2002 aerial image illustrates further substantive growth to the canopy of the Living Collection. Further clearing in and around the north of the internal ring road by quarry expansion is evident. This aerial also illustrates the expansion of the MBG west of the ring road. These areas currently support displays of a variety of native forests/ plants (e.g. Eucalypt and Acacia Forest, Bunya Forest, Sub-tropical Rainforest, Melaleuca Wetlands, Brigalow and Tropical Rainforest etc.).



Recent imagery from Queensland Globe© illustrates further expansion of the MBG since the 2002 image. This includes the establishment of more lakes/ lagoons in the east of the Site, more walking tracks, picnic areas, children's playgrounds and other park facilities, most notably in the south-east, central south and far west where the Australian Gardens have been established west of the ring road. Since the 2002 aerial, the adjoining areas to the south have been augmented to include the construction of Legacy Way, with its exit to the Western Freeway/ Centenary Motorway evident.

1.4 Purpose of this Report

The purpose of this EAR is to:

- Describe the existing environmental and ecological characteristics of the MBG and Display Area;
- Assess the potential impacts of the Display on these environmental characteristics;
- Determine relevant Commonwealth, State and City of BCC legislation, policy and planning instruments, and advise on compliance where necessary; and
- Identify ways through which the Display can avoid, minimise and mitigate the potential impacts on the environmental characteristics.

Importantly this EAR is supported by a broad environmental review and analysis of the entire Site by 28 South Environmental. Analysis for the existing Site environmental conditions include:

- Basic botanical study – noting:
 - the entire area of the Display and surrounds has been planted as a 'Living Collection' with limit to no native flora – which provides alternate lesser quality habitat amenity and resources to endemic fauna; and
 - no vegetation will be removed to establish the Display.
- Habitat assessments for important features to endemic fauna, and
- Spotlighting events to detect the abundance and diversity of fauna residing in the MBG.

To further inform this ecological assessment, we have undertaken the following desktop assessment:

- Historical and contemporary ecological reporting
- Desktop review of the environmental planning factors of the MBG and surrounding areas including Commonwealth, State and Local Government overlay mapping and databases

- Assessment of the proposed plans against the intentions and provisions of the BCC City Plan 2014: v24 (**City Plan**).

2 Legislative Framework

The following sections provide an overview of the legislative framework for the ecological aspects of the Display.

2.1 Commonwealth

2.1.1 Environment Protection and Biodiversity Conservation Act 1999

The *Environment Protection and Biodiversity Conservation Act 1999* (**EPBC Act**) provides the legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places. These are defined under the EPBC Act as 'Matters of National Environmental Significance' (**MNES**). Under the EPBC Act, a referral to the Department of Climate Change, Energy, the Environment and Water (**DCCEEW**) will be required if the Display could result in a Significant Impact on MNES. The determination of whether a Significant Impact will arise is made with reference to the *Matters of National Environmental Significance- Significant Impact Guidelines 1.1* and other EPBC Act policy statements.

A search of the Protected Matters Search Tool (**PMST**) indicating the likely or potential occurrence of MNES within 5 km of the central point of the Site has been undertaken (refer **Attachment 3**). A search of the Queensland Department of Environment and Science (**DES**) Wildlife Online database (**Attachment 4**) provides confirmed records of MNES within the same search radius (refer Appendix A of the Technical Ecological Report).

The EPBC PMST identified seventy-three (73) critically endangered, endangered or vulnerable flora species as having the potential to occur within the locality of the Site. The WildNet Species List returned twenty-one (21) (Critically Endangered, Endangered, Vulnerable or Near Threatened (**CREVNT**) (QLD/Commonwealth) flora/ fauna species under State or Commonwealth legislation that have been previously recorded in the 5 km buffer area. An assessment of habitat values on Site was undertaken for conservation significant species (CREVNT), special least concern or locally listed species to determine the likelihood of occurrence within the MBG and importantly the Display Area. To further assist with this assessment, a filtered database search was undertaken with a 1 km buffer to the Site to more accurately provide information regarding CREVNT and locally significant species known to the immediate locality which has been included in **Attachment 4**.

When considering the Display and its potential impacts, it is important to note that the MBG is a manicured setting, comprised of exotic landscaping works derived from exotic flora species from around the world; and, importantly, no trees will be subject to removal. A review of the habitat typologies present within the landscaped setting and the known CREVNT fauna from the immediate locality (noting only five (5) CREVNT species are known to the 1 km buffer, one (1) flora and four (4). Of these five, only two (2) are listed as MNES), highlights that no impacts would physically arise to any MNES fauna species.

The two MNES species known from the locality are koala and grey-headed flying-fox. Both species are largely nocturnal (or for the most part, active during nocturnal periods, noting they can also be active during diurnal periods). As the Display will result in periodical nocturnal activities (<10% of the nocturnal components of the year), the Display may result in minor disruption to these MNES by way of stochastic events where increased light/noise/ human activity occur (similar to natural events like storms, or outdoor human events such as night markets etc.).

2.1.2 Koala

With regard to koala, the Display Area has limited to no foraging habitat for koala due to the vegetation comprising this area being exotic landscaping. No physical impact to koala habitat is proposed. Koala are also known to persist in urban/ peri-urban environments where lighting and human activity are abundant. Whilst it is extremely unlikely a koala would move into the Display Area given the low habitat amenity for koala, the lack of physical impact to habitats, and the short stochastic like events the Display would create, are considered minor, short term and unlikely to impact koala. As such, no Significant Residual Impact is likely to occur to Koala.

2.1.3 Grey-headed flying-fox

With regard to the grey-headed flying-fox, no roosts are present within the MBG or in the immediate proximity to the MBG. The Commonwealths Annual flying fox roost survey (February, 2022³) noted a number of flying-fox camps within the broader surrounding urbanised areas throughout Brisbane, which included:

- five camps along Breakfast Creek (2 x The Gap, Alderley, Herston and Bowen Hills);
- a camp in the Brisbane Botanic Gardens - Parliament House;

³ <http://www.environment.gov.au/webgis-framework/apps/ffc-wide/ffc-wide.jsf>

- a camp at Perrin Park, Toowong;
- a camp at UQ Gardens; and
- a camp on Indooroopilly Island

While not an exhaustive list of camps in the Brisbane area, the above demonstrate flying-fox camps occur within the urbanised locality surrounding the MBG to the north, east and south. It also illustrates flying-foxes habituation to highly urban areas where high volumes of people, noise and nocturnal lights are prevalent.

With regard to the Display Area, this represents a low base for grey-headed flying-fox habitat amenity; however, where exotic tree species provide heavy fruiting or flowering (e.g. planted exotic fig or rainforest trees), flying-foxes will utilise habitats of the Display Area for foraging purposes. Despite these periodical resources being present, it does not offer important resources for the species when compared to native flora which it has evolved to forage upon, particularly during the breeding and rearing seasons of late winter and early spring.

No physical clearing works are proposed to establish the Display Area. The Displays may result in foraging resources having marginally lower amenity to grey-headed flying-fox with altered periodical illumination; however, this species, along with many other flying-fox species occurring in South-east Queensland are well-known to reside (exemplified by roosts being established in the City CBD), foraging and often preference well-lit urban areas where good quality forage is present (flying-foxes are readily observed throughout the CBD where under-lit figs are present or in flood-lit parks such as the driving range of Victoria Park). Similar to koala, the Display would create a minor change to the amenity of marginal foraging habitat, and minor, short-term and stochastic impacts.

Based on the Display:

- not physically impacting any native vegetation or exotic vegetation;
- having minor alteration to habitat amenity in a landscaped/ manicured urban setting; and
- only occurring for a short period of the night, over sporadic (to fauna) periods of the year (similar to other stochastic events natural and other anthropogenic).

A referral under the provisions of the EPBC Act is not considered to be warranted and no future assessment is provided on EPBC Act Matters.

2.2 State

2.2.1 Nature Conservation Act 1992

The *Nature Conservation Act 1992 (NC Act)* establishes approval triggers and an assessment process for clearing protected plants. No protected plants are identified or mapped on the Display Area (refer **Figure 3** below and **Attachment 5**). Further, the Display Area is comprised of manicured landscaping largely comprised of exotic flora considered '*not in the wild*'. It is also noted, no physical clearing or taking of any plants is proposed.

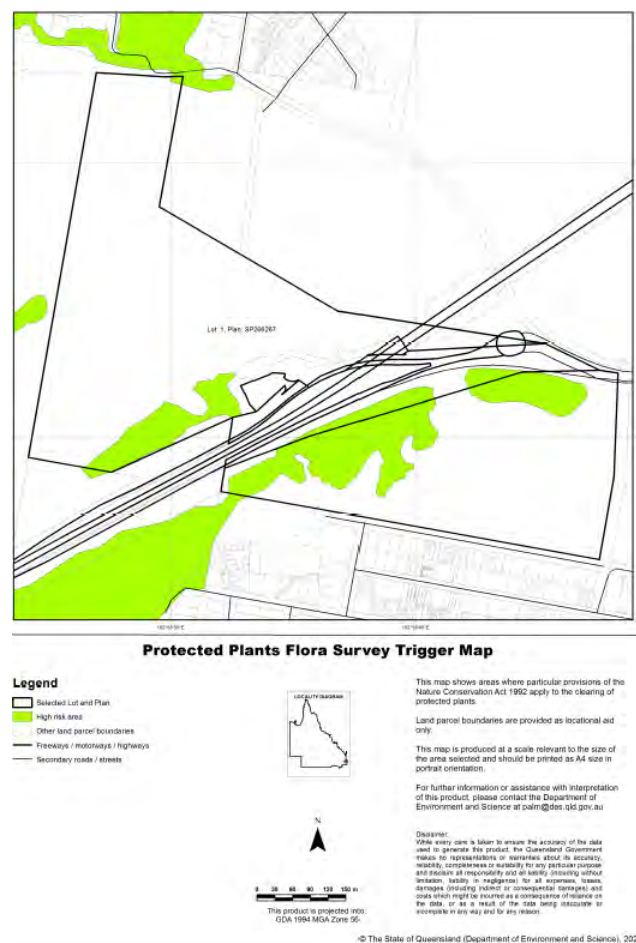


Figure 3: Protected Plants Survey, (Source: Vegetation Management Report, QLD Government 2022)

A rapid ecological survey was undertaken over the MBG on 29 June 2022 and 19 July 2022 to identify the Site's ecological values with regard to conservation significant species and flora/fauna in general. The results of this assessment are provided in **Section 3-4** and a discussion of the implications is provided in **Section 4.6** of this report.

One record of the Vulnerable (Qld) (V) tusked frog is noted within the Vegetation Management Report (**Attachment 5** and **Figure 4**). This species generally occurs in slow moving pools of

streams and static bodies. Habitats within the Display Area are artificially created, with the subject drainage feature having been augmented and created when the MBG was initially planted out. This waterway takes the form of a series of pools and small waterfalls created by rocks, retaining walls and concrete, where water is continuously pumped back to the top of the stream to maintain a consistent level and flow of water. The overstorey vegetation is generally aligned a mixture of mesic, exotic plant species creating a patch work of rainforest type habitats over the drainage feature. The fringing shrub and ground layer through much of the drainage feature is dense, shading out large sections of these pools. This is important to not with regard to future light spill impacts, as this vegetation is likely to stop or filter light from displays.

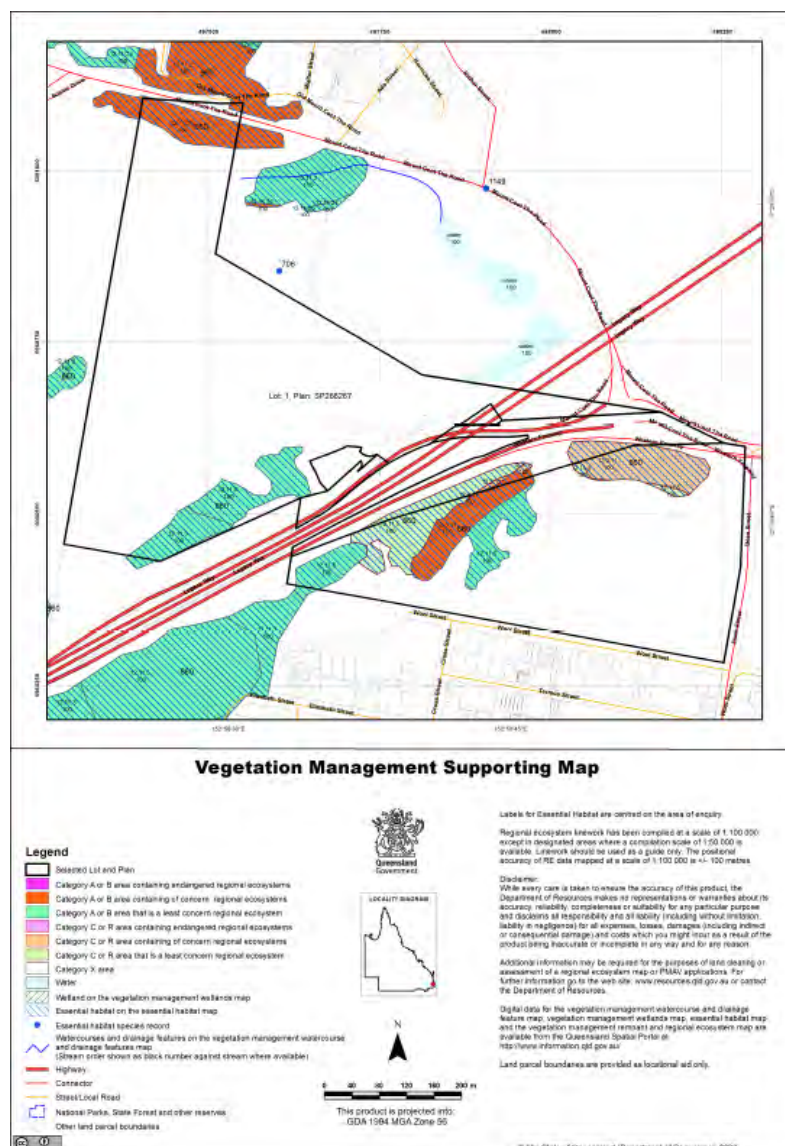


Figure 4: Vegetation Management Supporting Map, (Source: Vegetation Management Report, QLD Government 2022)

Photo Plate 1-2 below illustrate the anthropogenic nature of the waterway and its fringing exotic vegetation.



Photo Plate 1



Photo Plate 2

The tusked frog is readily known to occur in highly augmented and urban/ agricultural environments, regularly found in storm drains and dams around the Brisbane City periphery (pers obs). The existing circumstances provide suitable amenity for this species to readily persist in this anthropogenically created habitat, particularly given the lack of drying within the drainage feature which would ordinarily be ephemeral in nature, with pooling water being subject to rain events and weather conditions.

As the Display will not physically impact any suitable foraging or breeding habitat, primary impacts are not expected. Secondary impacts from the Display are considered to be: minor in nature; short term in occurrence; sporadic/ stochastic in their frequency (similar to events such as storms); and similar to habitats in urban environments where light spill from vehicles/ centres and urban residences are present. As noted, this species is readily adaptable to urban environments which have sporadic or constant light spill into habitats such as swale drains adjoining roads, urban centres/ shopping centres and residential areas. As such, it is not expected that the proposed display will impact the tusked frog.

2.3 Matters of State Interest

2.3.1 State Development Assessment Provisions

The Queensland Government defines matters of State Interest with referral triggers and responsible agencies set out in Schedule 10 of the *Planning Regulation 2017* (**Planning Reg**). Environmental matters of State Interest which have been considered as a part of this assessment are summarised in **Table 2**. For the purposes of this assessment, all definitions are as detailed in Schedule 24 of the Planning Reg.

Table 2 - Referral Triggers under the Planning Reg

Matter of Interest	Schedule Reference	10	Referral Agency Assessment Matters for Further Assessment
Clearing Native Vegetation Refer Vegetation Management Report (Attachment 5)	Part 3, Division 4, Table 3		N/A The Display Area is unconstrained by regulated vegetation. Components of the broader MBG contain mapped regulated vegetation; however, these areas are not impacted by the proposed Display. Further, no physical built infrastructure requiring essential management is proposed, thus no theoretical clearing through exemptions would be created. No further assessment required
Koala Habitat Areas Refer Vegetation Management Report (Attachment 5)	Part 6, Division 4, Table 1		N/A The Display Area is not mapped within the Priority Koala Area (PKA) or mapped as containing Core Koala Habitat Area (CKHA) mapping. Components of the broader MBG contain mapped CKHA; however, these areas are not impacted by the proposed Display. Further, no physical built infrastructure requiring essential management is proposed, thus no theoretical clearing through exemptions would be created. No further assessment required
Waterways and Wetlands Refer vegetation Management Report (Attachment 5)	Part 10, Division 2, Table 1		N/A No Wetland Protection Areas, Fish Habitat Areas or Coastal Protection Areas exist onsite. <i>Fisheries Act 1994</i> No further assessment required

2.4 Matters of Local Interest

The MBG is wholly situated within the BCC Local Government Area (**LGA**) and is has multiple zones “OS1 Open Space (Local) and OS3 Open Space (Metropolitan)”. The Site is located within the “Mt Coot-tha Neighbourhood Plan” under the BCC City Plan 2014: v24 (**City Plan**).

Several local overlays are mapped on site but due to the limited nature of the works and utilisation of existing infrastructure the majority of overlays are not applicable.

A search of the Site under the BCC Planning Scheme identifies that the Display Area is mapped to contain a Local Waterway Corridor Sub-Category overlay (see **Figure 5**). The proposed Display avoids clearing of riparian, native and significant vegetation and limits any disturbance to minor pruning works, electrical conduit burial and safety measures such as temporary hand rails and kick rails to avoid patrons moving off of the designated, existing formed footpaths. The location of the Display Area has been chosen to avoid the need for tree removal while the footpaths and much of the infrastructure is already in existence.

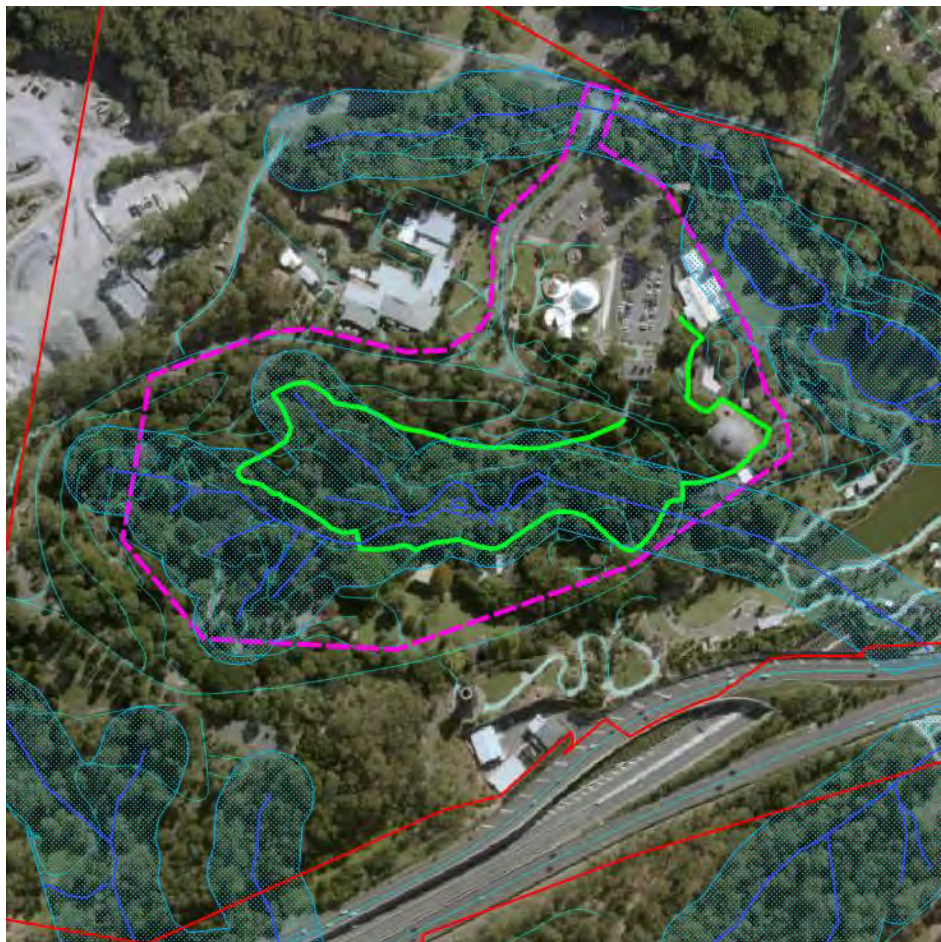


Figure 5- Waterway Corridor – Waterway Corridor Overlay (Source: Brisbane City Council Interactive Mapping Extract)

The MBG is mapped as containing the Biodiversity Overlay – High Ecological Significance, however this overlay is not encroached upon by the Display or Display Area (see **Figure 6**). Further, no works impacting native vegetation or planted vegetation is proposed.



Figure 6- Biodiversity Overlay – High Ecological Significance (Source: Brisbane City Council Interactive Mapping Extract)

The Display Area is within the Bushfire Hazard Area overlays. The Display does not propose to erect any assessable built infrastructure and will be utilising existing buildings and pathways. While there is no assessable infrastructure being constructed, a Bushfire Emergency Management Plan is required for the Display to define appropriate measures for certain fire weather conditions, refer to LEC Reporting.

The project is within the Mt Coot-tha neighbourhood plan and the Display seeks to enhance visitation to one of Brisbane’s major scenic landmarks while ensuring that the landscape and environment is preserved (noting the Display has been sighted in an area of exotic landscaping, not a natural setting). As such, the Display is in line with the relevant overall outcomes of the neighbourhood plan.

Assessment against the provisions of the applicable BCC Planning Scheme environmentally focused overlay codes have been undertaken; however, responses are reflective of the type of development proposed (refer to **Section 6.3** of this report).

3 Flora Impact Assessment

3.1 Desktop Assessment

A search of the pre-clear Regional Ecosystems (**REs**) for the Display Area identified three (3) REs previously occurred across the Display Area. These REs included RE 12.3.11 (lower central areas), 12.11.3a (upper central areas), 12.11.25 (fringing side slopes) and 12.11.5 (higher western slopes). However as identified in **Section 2** above, the current RE mapping for the Display Area does not show any of these REs present and the Display Area is wholly mapped as Category X area.

The EPBC PMST search indicates the potential occurrence of MNES vegetation communities and species in the broader locality (refer **Attachment 3**). The PMST data identified the following Threatened Ecological Communities (**TECs**) as having the potential to occur within the Study Area:

- Coastal Swamp Oak (*Casuarina glauca*) Forest of New South Wales and South East Queensland;
- Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland;
- Lowland Rainforest of Subtropical Australia; and
- Poplar Box Grassy Woodland on Alluvial Plains.

The EPBC PMST identified 18 Critically Endangered, Endangered or Vulnerable flora species as having the potential to occur within the locality.

The Wildlife Online data also indicates confirmed records of eleven (11) CREVNT species flora species that have been previously recorded within a 5 km radius of the Display Area; however, only one (1) CREVNT record within a 1 km radius of the Display Area (refer **Attachment 4**).

3.2 Survey Methods

Brief botanical assessments were undertaken across the Display Area on 29 June and 19 July and 2022 by suitably qualified ecologists. Detailed botanical surveys and tree mapping is not considered necessary to the following reasons:

- 1) The entire Display Area and immediate surrounds (within the ring road) occur as a manicured botanical garden comprised of largely exotic plantings where Plants are displayed in subtly changing thematic and geographic communities.
- 2) BCC's MBG Curator and Staff have a detailed listing of species planted which would exceed any survey efforts.
- 3) The MBG may be subject to on-going works which may alter species composition at any point in time.
- 4) The proposed Display will not result in the removal of any plantings or alterations to their composition.

The survey methodology consisted of a foot traverse through the Display Area via the various existing footpaths. A general composition for the subtly changing communities was collected for the purposes of providing a high-level description of the canopy and shrub layers.

3.3 Vegetation Communities

Vegetation community mapping for the Display Area identified the proposed alignment traverses a number of exotic vegetation communities planting in a subtly changing landscape which moves through various geographical regions of the world. Whilst the Display Area is a planted mixture of exotic trees, shrubs and plants, a brief description of the area as a whole is provided below.

The proposed route within the Display Area begins near the Botanic Gardens Café. A large *Sterculia foetida* and a *Harpulia pendula* overhang the path at this point. There are a number of planted bromeliads and shrubs such as *Beaumontia grandiflora* present. The route then passes to the west of the Cacti and Bromeliad House past some raised beds with small shrubs such as *Brahea armata*, *Salvia spp.* and a large palm (*Butia capitata*).

The route then passes under a large *Jacaranda mimosifolia* beneath which there are a number of bromeliads adjacent to the path. There is a large planting of *Strelitzia nicolai*, *Heliconia carnival* and *Philodendron sp.*. The route then passes a planting of tall *Livistona australis* before descending down some stairs and turning right past the Tropical Display Dome. This section supports a garden bed containing *Strelitzia reginae* and *Dracaena marginata* on the right and *Euphorbia milii* on the left. The landscape then opens up to the Arid Region Plants

section featuring unusual succulents and plants in *Asparagaceae* and *Asphodelaceae* such as *Beaucarnea recurvata*, *Aloe gemini*, *Agave stricta*, *Dracaena draco* and *Agave franzosinii*.

The path turns to the west past the entrance to the Tropical Display Dome on the right and the Fern House on the left. There are a number of plants such as *Philodendron spp.*, *Dracaena marginata*, *Cordyline sp.* with a canopy of *Archontophoenix cunninghamiana* and *Wodyetia bifurcata*. The path then turns left and crosses the road, entering the main gully section. There are many large trees including *Ficus banyan*, *Ficus lutea* and *Inga edulis* with an understorey of *Neomarica gracilis* and *Ophiopogon sp.* The path veers away from the Japanese Garden on the left and enters the Bamboo Grove which contains some large and ornamental species such as *Bambusa eutuldoides var viridi*, *Dendrocalamus asper*, *Bambusa textiles* and *Bambusa longispiculata*. The path continues up the central gully past the Children's trail. This section supports a high diversity of palms including *Butia eriospatha*, *Licuala spinosa*, *Rhapis excelsa*, *Chamaedorea seifrizii* and *Elaeisis guineensis*. There is a large *Myroxylon balsamum* which forms a canopy over many of the palms. There are small lawn areas sporadically adjoining the path.

The path then passes the Bonsai House on the left which is under construction. The palm garden continues until the path enters the Exotic Rainforest section which supports a dense and diverse range of tropical rainforest trees. Trees include *Ficus benjamina*, *Ceiba insignis*, *Cedrela odorata*, *Araucaria cunninghamiana*, *Bombax ceiba* and *Artocarpus lingnanensis*. Common understorey plants include *Aechmea kertesziae*, *Cordyline terminalis*, *Syzygium pycnanthum* and *Pteris cretica*. The path continues to climb until it crosses the central gully and begins to descend down the opposite side. This section includes an eclectic variety of less tall exotic tropical trees such as *Parmentiera cereifera*, *Ceiba speciosa*, *Enterolobium contortisiliquum*, *Afrocarpus falcatus* and *Peltophorum africanum*. Understorey species include *Nidularium sp.*, *Vriesea ospinae*, *Dietes iridioides*, *Ochna kirkii*, *Tibuchina heteromalia* and *Coffea arabica*. The path passes under a large *Spathodea campanulata* and *Delonix regia* before crossing the road and terminating at the Visitor Information Centre.

3.3.1 Trees Impacted in the Display Area

As noted previously, the intent of the Display is to utilise the existing vegetation within the Display Area as a canvas onto which the lights will project, creating the immersive educational patron experience. As such, no trees will be removed from the Display Area. Until detailed design of the Display is completed, the extent of pruning is unknown; however, is likely to be

minimal. All pruning and electrical conduit establishment will be approved and executed under the strict supervision of the MBG Curating Staff and a Level 5 consulting arborist.

4 Fauna Habitat and Impact Assessment

Fauna habitat and spotlighting surveys were recently conducted over the entirety of the Display Area to inform this EAR. These fauna surveys included desktop and in-field survey methods to assess the Display Area's ecological connectivity and internal habitat values. The below provides a brief synopsis of the Display Area studies, their results and how they relate to the proposed Display.

4.1.1 Database searches

Database searches are found in **Attachment 3** and **Attachment 4** of this report. A review of both the PMST and Wildlife Online databases was undertaken utilising 5 km radii from the MBG, with a refined, 1 km search of the Wildlife Online database undertaken to provide a more focused list of fauna species known to the immediate locality. The results of the refined survey have provided a list of fauna species of 'conservation significance' for further consideration against the habitat present within the Display Area. Where a fauna species would simply not occur within the habitats present in the Display Area, they have not been considered any further.

4.2 Methods, survey conditions and analysis

Habitat surveys were undertaken over the Display Area on 29 June and 19 July 2022. Surveys focused on observational and aural techniques to identify habitats important to native fauna species as well as spotlighting methods to assess nocturnal fauna usage and abundance. Surveys and spotlighting were not restricted to discrete locations but rather undertaken along 'fauna traverses' including but not limited the Display's main walking track.

Fauna habitat and spotlighting survey over the Display Area has been limited to active diurnal observational searches, 6 person hours of spotlighting, habitat quality assessments and species associations. No detailed fauna surveys have been undertaken to date, as no primary physical impacts are proposed and the impacts being limited to lighting and noise in an anthropogenic garden of exotic plantings, this level of survey is considered sufficient for assessment.

No adverse weather conditions which may have hindered survey efforts were encountered during the survey; however, the timing of surveys aligns with the cooler months and as such a likely reduced abundance and assemblage of fauna species.

4.3 Survey Limitations

Ecological surveys often fail to record all species of flora and fauna present in a Site for a variety of reasons, including seasonal absence, migratory patterns, cryptic behaviours, temporal survey periods, population fluctuation or reduced flowering during certain seasons. Furthermore, the ecology and nature of some significant and/or cryptic species means that such species are potentially not recorded during short survey periods. Botanical and fauna habitat assessments undertaken for this project have overcome some of these limitations by identifying those species that were not recorded but still considered to have a potential of being present (based on: known distribution; habitat availability within the Site; and habitat associations of species).

4.4 Habitat Connectivity and Features

4.4.1 Connectivity

The Display Area and surrounding MBG, remain in-part connected to the large tracts of native remnant vegetation associated with Mt Coot-tha and the D'Aguiar Range. The MBG forms a small eastern triangular node of this larger area of habitat, being located in a pinch point created by surrounding urban uses.

While the MBG remains partly intact with this broad area of remnant vegetation to the west (through fragmented areas of planted vegetation and road reserves), the lands immediately surrounding the Display Area have been heavily augmented creating ecological impediments to fauna movement, particularly for less vagile, smaller or cryptic species. To the west of the Display occurs a large operational quarry bound by Scenic Drive, to the south is the Centenary Motorway/ Western Freeway/ Legacy Way interchange and to the east and north Mt Coot-tha Road, the Toowong Cemetery and more dense urban areas of Brisbane. Internally the MBG supports areas of road, carparking, buildings, lawn areas and artificial lakes creating breaks in manicured habitats across the parklands.

Within the Display Area, connectivity remains relatively high as the planted exotic canopy is largely intact, with small canopy gaps created where areas of lawn and garden display areas occur. Shrubs and ground layers within the Display Area are highly variable and largely dependent on the element of collection. Within the Display Area, many key microhabitats for native fauna are absent such as large coarse woody debris, hollow bearing trees and rocky outcrops and cyclically flowering and fruiting native vegetation. Whilst these elements are absent, the areas where dense exotic plantings occur often support deep layers of leaf litter where they are not manicured, providing higher amenity habitat for terrestrial species such as reptiles and ground dwelling mammals as well as foraging resources for ground foraging birds.

The absence of key microhabitat features and floristically depauperate native vegetation has an effect on species diversity and abundance. Connectivity for many native forest dependant and cryptic fauna through the Display Area remains present; however, it is limited or lost due to the heavily modified and manicured nature of the surrounding areas. Vagile and robust species common to the locality and urban city environments will continue to utilise and habituate to any minor changes in this area as they have done so over the course of the MBG evolving uses.

4.4.2 Habitat trees and Resources

Ecological inspections of the MBG did not identify any important native trees containing hollow-bearing features which provide habitat for resident arboreal species such as possums, gliders, lorikeets and microbats, frogs and snakes. The lack of hollow-bearing trees corroborates with the results of diurnal habitat surveys and spotlighting surveys which failed to detect any arboreal or scansorial mammals such as brush-tail and ring-tail possums which are highly abundant in the surrounding urban areas and parklands.

As noted previously, the manicured and exotic nature of the Display Area has significantly altered the habitats present for native fauna when compared to pre-clearing vegetation communities and those present within the intact remnants to the west. This is particularly important when considering the alternative foraging resources and lack of hollow bearing trees. Despite this, the augmented habitat types provide a level of varied niches which accommodate a level of vertebrate diversity and population densities, albeit with less amenity to native endemic fauna evolved to forage on pre-clear habitats. Vertebrate communities in

manicured habitat types are not bereft of ecological value. The dense and mesic nature of the Display Area provides habitat for numerous more robust and mobile fauna species as well as refuge habitat

4.5 Terrestrial vertebrates

4.5.1 Significant species identified by database searches

An assessment of habitat requirements was undertaken for conservation significant species (CREVNT or locally listed species) identified within the 1 km sieving database review⁴ (Wildlife Online) to determine the likelihood of occurrence within the Display Area. Only migratory species that have been recorded within the Wildlife Online (**Attachment 4**) search or are listed as threatened or near threatened under the NC Act or EPBC Act were included in this assessment. This assessment was informed by the outcomes of the habitat characteristics identified during the field reconnaissance. The likelihood of occurrence for each fauna species was assigned one of the following categories:

- Nil – species for which habitat is clearly not present and/or there are no previous records (Wildlife Online).
- Low – species with only a limited amount of suitable habitat available, restricted by the availability of key habitat features; no previous records obtained from Wildlife Online.
- Moderate – species for which the broad habitat type is available (eg. as determined by RE mapping and ground-truthing), but are likely to be limited by the availability of one or more necessary habitat features (eg. hollow-bearing trees, key food resources) irrespective of whether there are previous records (Wildlife Online).
- High – species for which both the broad habitat type is available and key habitat features are present and the species has been previously recorded (Wildlife Online).

⁴ It is noted that the 5 km radii had slightly more species; however, most are associated with significantly differing habitats to that within the MBG and Display Area.

Desktop analysis conducted to assess the likelihood of occurrence identified 5 conservation significant fauna (CREVNT or locally listed) as having a moderate or high likelihood of occurrence within the Display Area.

National and State listing

- Grey-headed flying-fox (*Pteropus poliocephalus*)
- Koala (*Phascolarctos cinereus*)

Section 2.1 of this EAR outlined that it is highly unlikely that either the grey-headed flying-fox and koala will be impacted by the proposed Display and referral to the Commonwealth is not warranted. This assessment is also consistent with regard to State and Local statutory provisions and no further assessment is considered to be warranted.

State Listing (not already listed above)

- Red-tailed tropicbird (*Phaethon rubricauda*)
- Tusked frog (*Adelotus brevis*)
- Powerful owl (*Ninox strenua*)

While there is a database record of the red-tailed tropicbird, it is considered highly unlikely this species would over-fly the MBG and would not forage or roost in these habitats. This species is largely an obligate marine avian species, foraging in open ocean environs, rarely visiting mainland areas. Refuge and breeding occur in cliff or coastal island canopies. As such, no further assessment is warranted as no suitable marine habitat occur.

Local Listing (not already listed above)

- Grey goshawk (*Accipiter novaehollandiae*)
- White-striped freetail bat (*Austronomus australis*)
- Great egret (*Ardea alba modesta*)
- Square-tailed kite (*Lophoictinia isura*)

Of this group the tusked frog is known to the Display Area, while the raptors and grey-headed flying-fox were a prospect for foraging within the MBG and Display Area. This is on account those raptors and grey-headed flying-fox are: known to the broader locality; well adapted to urban and peri-urban environments; highly mobile; and suitable prey/ foraging resources (albeit markedly reduced) are present within the vicinity of the Display Area. The remainder are considered to have moderate-low likelihood of presence.

4.6 Conservation Significant Species and Project Impacts

4.6.1 Tusked frog

As noted, historical records of this species have been registered along the central augmented drainage feature within the Display Area. Whilst this species was not detected during survey efforts⁵, a conservative approach is taken, and it is assumed individuals of this species reside within the drainage feature and adjoining dense/ mesic habitats. This drainage feature is partly surrounded by dense mesic exotic vegetation, has sheltering opportunities for adults, and rotting leaf litter for tadpoles. Importantly for this species, the augmented drainage feature holds permanent slow flowing water due to the series of dams and waterfalls being subject to water recycling being pumped to the head waters. Areas of high value amenity for this species are associated with the in-stream habitats and immediately adjoining dense ground layer vegetation.

The proposed Display will not result in the physical clearing or disturbance of habitats for this species. As such, there is no direct impacts as a result of the proposed Display. Secondary impacts that may arise from the Display include light spill and noise pollution.

With regard to light spill, the proposed Display and its proximity to the in-stream habitats where the tusked frog would occur, it is unlikely significant, bright and constant light would spill into waterway areas. This is due to:

⁵ Noting, surveys were not undertaken in climatic periods conducive to tusked frog calling

- i) the dense, fringing and over-hanging low vegetation supported around the waterway areas (refer **Photo Plate 1-2**) which largely seals out light spill into the outer components of the waterway;
 - a. Where dense fringing vegetation is absent, habitat amenity for tusked frog is low and unlikely to be favoured areas (e.g. where rock retaining walls and adjoining footpaths occur in skinny, faster flowing sections of the creek). These areas will be light with directional lighting for patron safety.
- ii) the Display being largely located up-slope of the drainage feature, with only one crossing located in the higher, skinner and faster flowing sections.
- iii) The use of directional lighting will avoid direct light spill into in-stream areas.

Importantly, as outlined in the introduction of this EAR, the Display will only operate at a maximum of average of c.9.84% of the evenings across the year. As such, light in the vicinity of tusked frog habitat would only be marginally impacted by light, for a short period of the evening sporadically across the year. Further to this, the tusked frog is well known to occur in highly urbanised areas, residing in urban swale drains and dams near well light areas of areas where regular vehicle lights would spill into habitat.

With regard to noise impacts, similar to light, the Display will only operate at a maximum of average of c.9.84% of the evenings across the year. As such, noise impacts in the vicinity of tusked frog habitat would only be marginally impacted by light, for a short period of the evening sporadically across the year. This species readily resides in highly urbanised areas adjoining busy highways which generate consistent background noise. As such, the short-term and stochastic increase in noise in the Display Area is unlikely impact this species, particularly given its ability to habituate to busy, bright and noisy urban areas.

As such, it is considered unlikely that the proposed Display will significantly impact on the tusked frog (and other common amphibian species that may reside in the Display Area) or its anthropogenically created habitats.

4.6.2 Powerful Owl

Powerful owl is a large nocturnal forest raptor, occupying a variety of habitat types including rainforest through to open woodland. While the species generally requires large tracts of forest or woodlands, they readily reside in highly urbanised areas where suitable breeding hollows

occur with abundant foraging resources. This is exemplified with regular records of powerful owl from inner city suburbs fringing Sydney Harbour where small pockets of dense mesic gully habitat occur along the foreshore, surrounded by medium and high-density urban environments, other instances of recent records within Centennial Park and the Royal Botanic Gardens adjoining Circular Quay⁶ occur highlighting their ability to persist in highly urbanised areas.

Powerful owl is known to the locality, regularly observed in the leafy inner western suburbs of Brisbane. A well-known nesting tree occurs c. 1.2 km to the west of the Display Area, separated by the adjoining active quarry and the southern saddle of Mt Coot-tha. The location of this nest tree is physically separated by a 100 m of topographical elevation and occurs in completely separate valleys.

Powerful owl has a significant home range which is known to vary between c.400 ha to 4000 ha dependant on foraging resources and suitable roosting/ nesting habitats. During diurnal hours, powerful owl roost in dense mesic vegetation to avoid detection by aggressive avian species which mob and pester the owls as they present a threat (e.g., noisy miner).

The Display Area does not provide any suitable nesting hollows and as such no breeding habitat is present within the Display Area. The dense mesic vegetation (despite it being exotic) does however, provide suitable roosting and foraging habitat. While spotlighting efforts did not detect any small or medium sized arboreal or scansorial mammals, flying foxes and bush-turkeys were observed, both of which make up a component of the species foraging resources, particularly flying-foxes where arboreal mammals are in low abundance. Despite not detecting any arboreal mammals, it highly likely that species such as ring-tail possum (a favoured resource) would be present throughout the MBG and to a lesser extent the Display Area. As such, the potential to impact powerful requires further assessment.

As noted, no breeding habitat is present within the Display Area and no known nesting trees occur within the immediate proximity to the Display Area. As such, the proposed Display will not impact any known breeding places. The proposed Display will not result in the removal of trees within the Display area, with only minor pruning potentially required, if at all. As such, no physical impact to foraging habitat or resources will eventuate. Secondary impacts from noise and light may, however, alter areas of foraging habitat for this species.

⁶ Powerful Owl Project - <https://birdlife.org.au/projects/urban-birds/powerful-owl-project-pow>

As noted, home ranges for powerful owl pairs vary between c.400-4000 ha and comprise of a wide variety of habitats and foraging resources, particularly in peri urban and urban areas. To provide context, the proposed Display Area is c. 4 ha. This equates to foraging habitat of between 1 and 0.1% of a pairs range. Given the Display will only operate at a maximum of c. 9.84% of the years evening period (and front ended at the early evening period), potential light and noise impacts to powerful owl foraging habitat quates to between c. 0.984% and 0.0984% of a home range in an urbanised locality.

Given the small size and lack of hollow bearing trees within the Display Area coupled with the lack of arboreal mammal detection during spotlighting surveys, the habitats within the Display Area are unlikely to be of significance to powerful owl as a foraging resource. It is however acknowledged that the broader MBG and Display Area provide a component of foraging habitat, particularly were exotic figs and rainforest trees are in fruit, attracting a higher abundance of flying-foxes.

As noted in **Section 2.1.3**, flying-foxes readily forage in well-lit urban areas, and are likely to continue to forage in the MBG despite the Display's presence, particularly noting its stochastic and limited period of operation over the course of the year.

As noted, in **Section 1.2**, noise projected outward of each Station, and ultimately the Display Area, will quickly diminish to existing background levels. It is important to note that in practice, existing road traffic noise will generally mask any noise from these stochastic events to the surrounding residential areas. This indicates that noise impacts will not travel into adjoining residential areas or remnant habitats beyond the surrounding quarry or MBG facilities.

Given the lack of physical impact to foraging resources, powerful owls known ability to habituate and succeed in urban environments, limited period of operation creating noise and light impacts over the course of a year, and lower quality foraging amenity the Display Area currently presents, it is unlikely the proposed Display will have a significant impact to resident powerful owls and future generations.

4.6.3 Grey goshawk

The grey goshawk is a medium sized diurnal raptor which preys upon small sized birds, small ground fauna, reptiles and insects. While this species was not observed, nor any nesting sites observed in the Display Area, its mobility and suitable habitats present within and surrounding

the MBG present and suitable matrix of vegetation and cleared areas where foraging is likely to occur.

While this species may overfly, and from time-to-time hunt within the Display Area, the proposed Display will not impact foraging or breeding habitats given its nocturnal and periodical nature.

4.6.4 Square-tailed kite

The square-tailed kite is a medium sized diurnal raptor found in a variety of sclerophyll forests in the Brisbane region⁷. This species specialises in hunting other aves, largely small passerines. This species is known to the locality with a nesting pair regularly observed at the peak of Mt Coot-tha. This species has a large home range up to 10,000 ha, encompassing a wide variety of habitats.

While this species may overfly, and from time-to-time hunt within the Display Area, the proposed Display will not impact foraging or breeding habitats given its nocturnal and periodical nature.

4.6.5 Great egret

The great egret is a large migratory ave, generally aligned with wetland habitats where it breeds in colonies or rookeries. This species readily occurs across a wide variety of nature and anthropogenic habitat, from nature wetlands to sewage treatment plants, salt pans, flooded paddocks, cropping, estuaries, and offshore reefs. The small areas of aquatic habitat within the Display Area support marginal foraging habitat, similar to, but to a lesser extent habitats created by the dammed lakes within the MBG.

While this species may overfly, and from time-to-time forage within the aquatic habitats of the MBG and possibly within the Display Area, the proposed Display will not impact foraging or breeding habitats given its nocturnal and periodical nature.

4.6.6 Micro-bats

Although a number of micro-bat species are likely to forage within the Display Area, only one White-striped free-tailed bat (*Austronomus australis*) is considered significant within Brisbane. This species is primarily a tree roosting species; in hollows or under loose bark. Occasionally

⁷ Noting it utilises a variety of other habitat types dependant on the geographic location

it is recorded roosting in the roof cavity of buildings. They may roost singly, but mainly they roost colonially with several hundred bats living in a colony.

No hollow bearing trees were observed during surveys and many of the exotic trees did not display decorticating bark sufficient for roosting. Despite this, the proposed Display will not result in physical removal to any trees within the Display Area. These species are well documented to reside in highly urbanised and well-lit areas. Regular records of this and many other species were detected over Victoria Park, located in the inner city where driving range flood lights, lit up survey areas for long periods of the evening. It is likely the presence of this lighting potentially increases foraging resources for micro-bat species (e.g., flying insects).

Given the lack of physical impact to foraging resources, lack of suitable roosting and colonial roosting habitat, limited period of operation creating noise and light impacts, and coupled with the species ability to occupy and existing in highly urban areas, it is unlikely the proposed Display will have a significant impact to this species.

5 Mitigation Measures

The proposed development limits any disturbance to minor pruning works, electrical conduit burial and safety measures such as temporary hand rails and kick rails to avoid patrons moving off of the designated, existing formed footpaths. The location of the Display Area has been chosen to avoid the need for tree removal while the footpaths and much of the infrastructure is already in existence. The works are proposed in a small area of the MBG fronting the Planetarium car park. These works are proposed to enhance the accessibility, and function of the park. This space may accommodate a variety of passive and active recreation activities associated with the MBG. It is anticipated that there will be limited existing landscaping removed (refer to **Attachment 2**) with public use of these areas being directed along an existing pavement pathway allowing existing fauna species who have habituated to the city parkland environment to remain relatively undisturbed.

Flora and fauna habitat assessment surveys have been conducted to review the significance of the habitats within the Display Area and assess the potential impacts to conservation significant species and common species alike. These assessments concluded that the proposed Display is unlikely to result in a significant impact. The proposed use will, however, require specific design elements included to mitigate potential secondary impacts from lighting and noise. As outlined in **Section 1.2**, the proposed Display will be subject to a fine level of detailed design. This detailed design will include expert lighting and noise engineers which will prepare each installation and movement paths between such that lighting, and noise are centrally focused inwards, utilising the vegetation within the Display Area as the canvas for the lights and experience while not compromising adjoining installations; thus, there is an incentive/ focus on the installation being restricted to the metes and bounds of its location within the Display Area and not spilling outwards.

The proposed Display creates and opportunity for the Applicant to work with the MBG Curator to identify locations within the Display Area or surrounding MBG where more vegetation can be established to enhance both the Display and general biodiversity/ habitat amenity of the MBG.

6 Statutory Compliance

6.1 EPBC Act

Assessment of the MNES known or likely to occur within the locality has concluded that the proposed Display is unlikely to have a 'Significant Impact' on MNES. As such, it is not considered necessary to submit a controlled action referral to the DCEEW. In making this recommendation, particular consideration has been given to koala and the *EPBC Act referral guideline*.

6.2 State Triggers

6.2.1 Protected Plants

In Queensland, all plants that are native to Australia are protected plants under the NC Act. The NC Act regulates the clearing of protected plants *'in the wild'* that are listed as CREVNT under the Act.

The Display or works area does not contain any Protected Plants considered to be *'in the wild'*, nor will works in the works area result in the loss of any Protected Plants.

6.2.2 Regulated Vegetation

As discussed in **Section 2.3** of this report, there is no mapped or identified regulated vegetation within the Display Area.

As the proposed use will not impact mapped regulated vegetation there is no requirement to assess the proposed works against State Code 16. Similarly, referral to SARA is not required for Clearing Native Vegetation.

6.2.3 MSES Wetlands and Waterway

There are no MSES Wetlands and Waterways within the Display Area.

6.2.4 Koala Protection Framework

The koala is listed in Queensland as vulnerable by the Queensland Government under *NC Act* and by the Australian Government under the EPBC Act.

The Queensland Government's koala protection framework is comprised of the *NC Act*, the *Nature Conservation (Animals) Regulation 2020*, the *Nature Conservation (Koala) Conservation Plan 2017*, the *Planning Act 2016* and the Planning Reg.

The Display Area does not contain CKHA. A small portion of CKHA mapping exists on the greater MBG Site; however, is well separated from the Display Area and the proposed Display will not result in the 'interference with koala habitat'.

6.3 Brisbane City Plan

The BCC planning scheme details the Strategic Vision for the City identified as a reflection of the Brisbane CityShape 2031 and is considered an overarching tool for Council to deliver the “*shared aspirations of the Brisbane community*”⁸ which supports the planning schemes intentions for the City.

Section 6.3.1 - 6.3.7 of this report below details the specific components of the BCC City Plan relevant to the proposed Display Area.

The proposal includes Waterway Corridor Overlay mapping and therefore assessment against ecologically relevant components the BCC City Plan, Waterway Corridor Overlay Code is completed below.

It is noted surveys identified that within the mapped waterway corridors overlay, there are no natural bed or banks, pools or riffles, riparian vegetation. The watercourse has been historically changed and augmented to function predominately as a landscaping features within the Living Collection (exotic gardens from around the world). Importantly the proposed Display will not result in any physical works within the waterway.

While the Display Area does not include Biodiversity Area Overlay mapping, the greater MBG includes a small area of Biodiversity Area Overlay of High Ecological Significance (**HES**) sub-category and therefore the proposed Display has been assessed. Noting the proposed Display is not expected to impact areas of HES of the greater MBG.

The proposed Display will not have an impact or fragmentation of waterways, and will maintain the anthropogenic flow conditions established by the MBG landscape design. Water quality will not be impacted, and waterway amenity will not be impacted. The proposal will contribute to recreational options as located within the urban parkland.

⁸ BCC City Plan 2014: Citation and commencement- Strategic framework.

6.3.1 Strategic Framework - Theme 3: Brisbane's clean and green leading environmental performance

BCC City Plan, Part 3- Strategic Framework sets the policy direction to guide appropriate development for the life of the planning scheme.

As a part of this report, the Strategic Framework as a whole has been reviewed. The key outcomes have been reviewed and considered in the context of the Display, and while there are several overlapping concepts within the five (5) themes which are collectively important to represent the policy intent of the City Plan, this report has considered the Theme 3- Brisbane's clean and green leading environmental performance.

- *Brisbane is settled in a well-managed landscape which includes and protects a diverse range of natural features of ecological, cultural and regional significance. Residents and visitors to Brisbane continue to value the natural assets, urban footprint and city form determined by previous generations. The city will continue to protect, connect and restore its environmental values.*
- *Brisbane's distinctive landscape character and environmental values are essential to the identity, lifestyle, economic and ecological functions of the city. The natural scenery of forested hillsides, the Brisbane River, waterways, coastal wetlands, Moreton Bay and islands are retained and their multiple values are protected.*
- *The Greenspace System serves many functions. It contributes to the city's character and liveability; it supports landscape, recreation and ecological functions, ecosystem services and defines local neighbourhoods and the edge of the city.*
- *Ecosystem services are the goods and services provided by natural, modified and urban ecosystems that benefit, sustain and support the wellbeing of people. Ecosystem services are valued, maintained, protected and enhanced.*
- *A resilient, robust and well-protected system of habitat areas, connected by ecological corridors provides habitats for our rich diversity of flora and fauna species, including the koala.*
- *A strategic and cohesive Greenspace System links the city's major waterways, biodiversity areas, selected rural and recreation lands and ecological corridors.*

- *Environmental quality is proactively managed, balancing amenity considerations and the location of sensitive uses with the requirements of uses with reverse amenity impacts that are essential to the economic development and function of the city.*

The proposed Display will increase visitation of a key Brisbane natural asset while maintaining the existing biodiversity and attract additional business in the park and as such is considered consistent with the intention of the theme 3 of the strategic framework. Further, it must be noted that while the Display occurs within one of Brisbane's natural assets, the Display Area is strategically an area which has been fabricated with exotic flora and created drainage features, thus not proposing light and noise impact on any natural settings.

6.3.2 Zone Code

The proposed Display aims to increase the usability of the existing park, in line with the intent for the use of the MBG under the Open Space Zone. The proposed Display Area is in compliance with the intent of the Open Space Zone providing a variety of educational, and recreational activities for the Brisbane Community with further details discussed within the town planning report.

Assessment of the Section 6.2.3.2 Open Space zone code has identified the following environmentally relevant overall outcomes relevant to the Display:

5. Development form overall outcomes are:

- a. Development minimises any adverse impact on surrounding land uses through appropriate location, site design and management.*
- b. Development is not carried out on land that is susceptible to flooding or drainage problems except for park facilities or infrastructure which has been designed and constructed for flood resilience.*
- c. Development is designed to incorporate sustainable practices including water sensitive urban design.*
- d. Development of high-patronage activities is supported by the necessary level of transport infrastructure to promote safe and efficient public transport use, walking and cycling.*

- e. *Development responds to land constraints, mitigates any adverse impacts on environmental values and addresses other specific characteristics, as identified by overlays affecting the site or in codes applicable to the development.*

The proposed Display has carefully considered the overall outcomes and the existing infrastructure and will mitigate any adverse impacts. As such, the proposed Display is considered consistent with the overall outcome of the zone.

6.3.3 Overlay Codes

BCC City Plan, Part 8, Overlays identifies the specific onsite areas that reflect state and local level interests. Relevant environmentally focused Council overlays relevant to the greater MBG are mapped as:

1. Biodiversity areas overlay; and
2. Waterways corridors overlay.

While the Display Area contains only the Waterway Corridor Overlay, the Biodiversity Areas Overlay is located on a small portion of the greater MBG Site and therefore has also been addressed in section **Sections 6.3.5 - 6.3.6**.

6.3.4 Schedule 6.3.3- Vegetation Planning Scheme Policy

The Vegetation Planning Scheme Policy outlines the requirements for assessing the impacts on natural values by development. This Ecological Assessment Report has been prepared in accordance with the policy's stated requirements for ecological assessment and tree survey.

The design and location of the Display Area has been chosen with full optics and consideration of all mapped landscaping within the MBG to avoid tree removal. The Display Area is not encumbered by any biodiversity areas overlay sub-category or koala mapping. A small-mapped area of HES, which is also determined to be CKHA occurs adjacent to the Centenary Hwy and is significantly separated from the development.

6.3.5 Schedule 6.3 - Biodiversity areas planning scheme policy

Surveys and assessments have been undertaken generally in accordance with the requirements of the Biodiversity Areas Planning Scheme Policy (**BAPSP**). Within the research assessment of impacts and benefits have been undertaken in accord with the BAPSP.

6.3.6 Biodiversity Areas Overlay Code

Performance Outcome	Acceptable Outcomes	Response
Biodiversity Areas Overlay Code		
Section C		
If a site is wholly or partly in the High ecological significance sub-category or the High ecological significance strategic sub-category		
<p>PO4 Development ensures that ecological features and ecological processes, koala habitat trees, areas of strategic biodiversity value, waterways and wetlands within the High ecological significance sub-category or the High ecological significance strategic sub-category are protected, conserved and restored to ensure the area's long-term viability.</p> <p>Note—Where proposing development within the High ecological significance sub-category, the High ecological significance strategic sub-category, the General ecological significance sub-category or the General ecological significance strategic sub-category, refer to section 8.2.4.1 Application of this code with regard to satisfying the Purpose of the code and this performance outcome. The proposed solution must provide the same level of service without significant disruption of biodiversity values or outcomes.</p>	<p>AO4 Development:</p> <p>a. ensures that the development footprint, including roads, services, stormwater management infrastructure, any associated filling or excavation works and any fire management access and buffers, are located wholly outside the High ecological significance sub-category or the High ecological significance strategic sub-category; or</p> <p>b. complies with AO4.2, AO4.3 and AO4.4.</p> <p>AO4.2 Development ensures that the development footprint, design and layout are informed by an ecological assessment which:</p> <p>a. identifies and evaluates biodiversity values, ecological features (including significant vegetation communities listed in Table 8.2.4.3.B, significant flora species listed in Table 8.2.4.3.C, or significant fauna species listed in Table 8.2.4.3.D), koala habitat trees, areas of strategic biodiversity value, waterways and wetlands;</p> <p>b. identifies the likely impacts of the development to biodiversity;</p> <p>c. outlines how any potential impacts on biodiversity will be avoided and mitigated.</p>	<p>N/A</p> <p>The broader MBG contains areas of High ecological significance sub-category or the High ecological significance strategic sub-category, namely area of native vegetation in its south, west and north.</p> <p>However due to the large scale of the MBG and substantial distance between the HES and the Display Area, it is not expected to cause an impact.</p>

	<p>Note—Guidance on completing an ecological assessment, development design and identifying koala habitat are included in the Biodiversity areas planning scheme policy.</p>	
	<p>AO4.3 Development ensures that the development footprint, design and layout conserves ecological features (including significant vegetation communities listed in Table 8.2.4.3.B, significant flora species listed in Table 8.2.4.3.C, or significant fauna species listed in Table 8.2.4.3.D), koala habitat trees and wetlands in a spatial configuration which:</p> <ul style="list-style-type: none"> a. conserves areas within the High ecological significance sub-category or the High ecological significance strategic sub-category that connect habitat or areas of strategic biodiversity value which have the capacity to connect habitat upon being restored; b. maximises the size and consolidates areas to be conserved for biodiversity purposes on site and in combination with adjoining sites; c. provides connectivity between areas to be conserved for biodiversity purposes on site and with adjoining sites; d. minimises the edge-to-area ratio of areas to be conserved for biodiversity purposes to limit edge effects; e. minimises fragmentation by infrastructure; f. includes a single development footprint plan for each new residential lot to be created which is: <ul style="list-style-type: none"> i. 1000m² or less where on a lot in the Low density residential zone, the Low-medium density residential zone, the Medium density residential zone, the High density residential zone or the Character residential zone; ii. 2500m² or less where on a lot in the Environmental management zone, the Conservation zone, the Emerging community zone, the Rural zone or the Rural residential zone; g. excludes filling or excavation from areas to be conserved for biodiversity, except where it is directly associated with habitat restoration. 	<p>As above</p>
	<p>AO4.4</p>	<p>As above</p>

	<p>Development is designed to minimise edge effects by locating land uses compatible with the long-term preservation of biodiversity adjacent to areas within the High ecological significance sub-category or the High ecological significance strategic sub-category, including:</p> <ul style="list-style-type: none"> a. esplanade roads and pathways; b. landscaping or habitat restoration areas consisting of local indigenous plant species; c. open space land uses; d. employee or communal recreation areas; e. stormwater management infrastructure where adopting water sensitive urban design solutions. <p>Note—Guidance on development design to minimise edge effects is included in the Biodiversity areas planning scheme policy.</p>	
<p>If a site is wholly or partly located in the High ecological significance sub-category, the High ecological significance strategic sub-category, the General ecological significance sub-category or the General ecological significance strategic sub-category, other than for a dwelling house</p>		
<p>PO9</p> <p>Development which has or is likely to have a significant residual impact on a matter of State environmental significance or a matter of local environmental significance, after all reasonable on-site mitigation measures have been or will be undertaken, provides an environmental offset.</p> <p>Note— Environmental offsets are provided in compliance with the Queensland environmental offsets framework and the Offsets planning scheme policy.</p>	<p>AO9</p> <p>No acceptable outcomes is prescribed.</p>	<p>N/A</p> <p>The Display Area does not contain partly or wholly areas of HES sub-category, the HESS sub-category, the GES sub-category or the General GESS sub-category. No significant residual impact on a Matter of Local Environmental Significance.</p>

6.3.7 Waterway Corridors Overlay Code

Performance Outcome	Acceptable Outcomes	Response
Section A—If accepted development subject to compliance with identified requirements (acceptable outcomes only) or assessable development		
<p>PO1</p> <p>Development avoids or minimises clearing of riparian, native and significant vegetation and limits any clearing and disturbance to only the extent and location reasonably necessary for the use, to promote:</p> <ul style="list-style-type: none"> a. bank stabilisation; b. connectivity between habitat areas; c. natural cooling of the urban environment; d. the natural aesthetic values of the corridor. <p>Note—Guidance regarding retaining and enhancing vegetation species can be found in the Vegetation planning scheme policy and the Planting species planning scheme policy.</p>	<p>AO1.1</p> <p>Development within the Local and Citywide waterway corridor sub-categories, or Brisbane River sub-category – sections 1 - 5 is located within an approved development footprint plan or complies with AO1.2, AO1.3 and AO1.4.</p> <p>AO1.2</p> <p>Development within the Local and Citywide waterway corridor sub-categories, does not result in the removal of vegetation.</p> <p>Note—Removal of identified pest plant species within the waterway corridors may be supported. Vegetation on heritage sites will be assessed on a case by case basis.</p> <p>Editor's note—The <i>Biosecurity Act 2014</i> lists the pest plant species that must be managed in Queensland. The Biosecurity Plan for the Brisbane Local Government Area outlines those pest plant species that pose a specific risk to Brisbane's biodiversity.</p> <p>AO1.3</p> <p>Development within the Brisbane River corridor sub-category – section 1 does not result in the removal of vegetation within 30m of the highest astronomical tide. Refer to Figure a.</p> <p>Note—Removal of identified pest plant species within the waterway corridors may be supported. Vegetation on heritage sites will be assessed on a case by case basis.</p> <p>Editor's note—The <i>Biosecurity Act 2014</i> lists the pest plant species that must be managed in Queensland. The Biosecurity Plan for the Brisbane Local Government Area outlines those pest plant species that pose a specific risk to Brisbane's biodiversity.</p> <p>AO1.4</p> <p>Development in the Brisbane River corridor sub-category – section 2, 3, 4 or 5 does not result in the removal of vegetation within 20m of the highest astronomical tide. Refer to Figure a.</p> <p>Note—Removal of identified pest plant species within the waterway corridors may be supported. Vegetation on heritage sites will be assessed on a case by case basis.</p> <p>Editor's note—The <i>Biosecurity Act 2014</i> lists the pest plant species that must be managed in Queensland. The Biosecurity Plan for the Brisbane Local Government Area outlines those pest plant species that pose a specific risk to Brisbane's biodiversity.</p>	<p>AO1.2 Complies</p> <p>The Display will not result in the removal of vegetation nor will it create any new boundaries or fence lines. Safety rails and kick rails will be designed to comply with relevant BCC standards.</p> <p>AO1.3 N/A</p> <p>The Display is not located within the Brisbane River corridor sub-category.</p> <p>AO1.4 – N/A</p> <p>The Display is not located within the Brisbane River corridor sub-category.</p>

<p>Section C—If accepted development subject to compliance with identified requirements (acceptable outcomes only) or assessable development other than a dwelling house in a Citywide waterway corridor sub-category or the Local waterway corridor sub-category</p>		
<p>PO6</p> <p>Development protects and enhances the values and functions of a waterway corridor by:</p> <ul style="list-style-type: none"> a. avoiding fragmentation of the waterway; b. providing environmental connectivity along the waterway; c. maintaining natural flow conditions; d. protecting water quality, ecological health and habitat values; e. protecting water conveyance; f. contributing to the waterway corridor natural amenity; g. contributing to recreation where planned within the Local government infrastructure plan; h. contributing to natural cooling of the urban environment via minimal impervious surfaces, retention of vegetation and continuity of naturally vegetated areas; 	<p>AO6.1</p> <p>Development is not located within a waterway corridor.</p>	<p>AO6.1– Performance Outcome Sought</p> <p>The Display is not a tradition 'development' and will not result in the require for works within the waterway outside of light and electrical instations.</p> <p>The Display will utilise existing infrastructure, with no earthworks planned within the stream or overland flow path.</p> <p>The proposed Display will not fragment the waterway or impact on its ability to provide connectivity, water conveyance natural cooling and will continue to be used as an active public open space in a similar fashion to its current use.</p> <p>AO6.2 Complies</p> <p>The Display is not a Reconfiguration of a Lot and does not increase the number of lot boundaries that cross a waterway corridor; and retains the corridor within a single lot.</p>
	<p>AO6.2</p> <p>Development:</p> <ul style="list-style-type: none"> a. does not increase the number of lot boundaries that cross a waterway corridor; b. retains the corridor within a single lot. 	

<p>i. ensuring that any future buildings can be positioned outside the corridor;</p> <p>j. providing a development footprint plan that is located in accordance with an ecological assessment.</p> <p>Note—This can be demonstrated by undertaking an ecological assessment, tree survey plan and concept rehabilitation plan where required. Guidance is provided within the Biodiversity areas planning scheme policy, Vegetation planning scheme policy and the Planting species planning scheme policy.</p>		
<p>PO7</p> <p>Development involving filling or excavation within a Citywide waterway corridor sub-category or a Local waterway corridor sub-category does not directly, indirectly or cumulatively cause any material increase in flooding or flood hazard or involve significant redistribution of flood storage from high to lower areas in the floodplain.</p> <p>Note—This can be demonstrated by undertaking earthworks in compliance with the Compensatory earthworks planning scheme policy.</p>	<p>A07</p> <p>Development involving filling or excavation in the Citywide waterway corridor sub-category or the Local waterway corridor sub-category:</p> <p>a. does not exceed 100 mm depth; or</p> <p>b. is in compliance with the Compensatory earthworks planning scheme policy.</p>	<p>Complies</p> <p>The Display is within sections of the Local waterway corridor sub-category. Any excavation or filling required will not exceed 100mm depth or a.is in compliance with the Compensatory earthworks planning scheme policy.</p>
<p>PO8</p> <p>Development provides stormwater management solutions which assist in the re-naturalisation of a waterway in the Local or Citywide waterway corridor sub-categories.</p>	<p>A08</p> <p>Development provides stormwater management solutions in a waterway in the Local or Citywide waterway corridor sub-categories using natural channel design principles.</p> <p>Editor's note—Advice should be sought from Council as to whether the reinstatement of an open waterway from any stormwater pipe or concrete-lined drain is a suitable solution based on the extent and location of the development.</p> <p>Editor's note—Guidance on natural channel design principles can be found in the Council publication Natural channel design guidelines.</p>	<p>Complies</p> <p>The Display will utilise existing stormwater management solutions within the Local Waterway corridor.</p>
<p>PO9</p> <p>Development preserves a waterway in the Citywide waterway corridor sub-category</p>	<p>A09</p>	<p>N/A - The Display is not in the Citywide waterway corridor sub-category and already occurs on BCC land.</p>

<p>for public use if that land is required for ecological, public open space or recreation functions.</p>	<p>Development provides for the transfer of land to Council in a waterway of the Citywide waterway corridor sub-category in compliance with a neighbourhood plan or the Local government infrastructure plan.</p>	
<p>PO10</p> <p>Development is designed to use a waterway which is in the Local waterway corridor sub-category as an environmental feature in the urban environment.</p>	<p>AO10</p> <p>Development ensures that a waterway in the Local waterway corridor sub-category is accessible for open space purposes.</p>	<p>Complies</p> <p>The waterway will be used for open space purposes.</p>

7 Summary and Conclusion

This report has been prepared on behalf of the Applicant to assess the ecological and environmental planning matters applicable to the proposed Display within the MBG based on the proposed Display Area and the proposed alignment along the existing MBG formed pathways, in-field surveys and the Display Areas context in the locality.

This application is sited and located in an area historically utilised for a consistent land use, and it is not anticipated that the Display will be substantially different to the existing footprint of infrastructure or maintained lawns/ gardens on historical fill. Any re grading of levels onsite will be maintained by Council, similar to the existing maintenance onsite.

In-field and desktop assessments have been undertaken to help guide and assess the location of the Display which included botanical studies, fauna habitat assessment surveys and nocturnal spotlighting surveys, along with a desktop analysis focusing on the proposed Display Area and expected impacts rather than the entirety of the MBG. It is important to consider the Display Area is located within the MBGs Living Collection Area and proposes to utilise existing parking and pathway infrastructure. The Living Collection is comprised of a landscaped garden, created to display a range of exotic plantings which subtly change through the Display Area based on geographical regions around the world.

In-field assessment and analysis of the habitats/ vegetation supported within the Display Area concluded that the proposed Display will not result in a significant impact to statutory Matters of National, State or Local Environmental Significance. This is resultant of the Display:

- Being located in a manicured garden comprised of artificial ponds, waterfalls and exotic plantings;
- Not proposing to physically remove trees, and pruning being at a minimum and completed under the approval and supervision of the MBG Curators;
- Not requiring the construction of new footpaths and infrastructures;
- Utilising design techniques to manage light and noise impacts due to the necessity of the Displays installations avoiding cross over which would diminish the patron

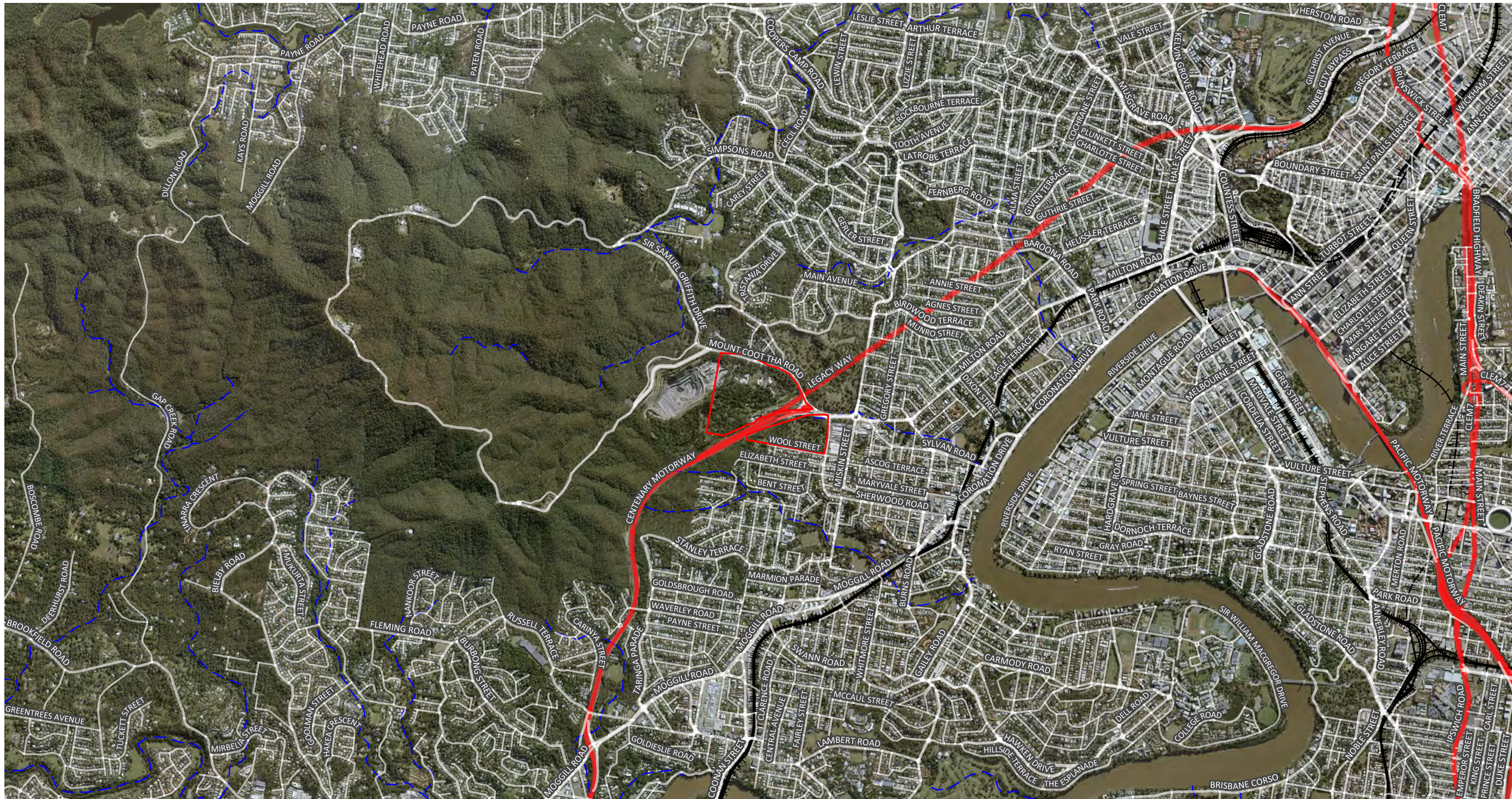
experience (thus not spilling into nearby important ecological areas nearby and quickly diminishing to existing background levels beyond the Display);

- Being operated for a short time of the nocturnal periods of the year, front ended to the early evening and at a maximum operational period of approximately 9.84% of the night period across the year.

It is considered the proposed Display is unlikely to result in a significant direct or indirect impact to any conservation significant species or local resident fauna.

Attachments

ATTACHMENT 1



Mt Coot-tha Lumina Night Walk

Legend

Attachment 1 - Locality

Figure 1 - Locality

- Site
- data Baseline_roads_and_tracks
- Road Networks
- QLD Waterways for Waterway Barrier Works
- Waterways
- ++ Rail_network

28 South Project Ref: 2022-035

Source: D:\Dropbox\Projects\2022\2022-035 (Mt Coot-tha Light Show)\(d) Data\ \(d) GIS

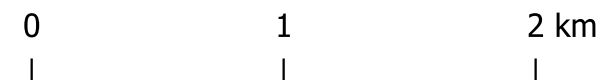
Data Sources: Qld Globe (SIPS 2016); Digital Cadastre Database (Dept. Natural Resources, 2021); Roads (Dept. Natural Resources, 2020); Watercourses (Dept. Natural Resources, 2020); Contours (Dept. Natural Resources 2016).



Issue Date	Dwg No.	Author
30 June 2022	2022-035-001	MT
Approved		Revision Note
WM		

(A3) GDA 94 MGA 56

1:30,000



ATTACHMENT 2



Mt Coot-tha Lumina Night Walk		Legend		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Issue Date</td> <td style="width: 33%;">Dwg No.</td> <td style="width: 33%;">Author</td> </tr> <tr> <td>30 June 2022</td> <td>2022-035-002</td> <td>MT</td> </tr> <tr> <td colspan="2">Approved</td> <td>Revision Note</td> </tr> <tr> <td colspan="2">WM</td> <td></td> </tr> </table>	Issue Date	Dwg No.	Author	30 June 2022	2022-035-002	MT	Approved		Revision Note	WM		
Issue Date	Dwg No.	Author														
30 June 2022	2022-035-002	MT														
Approved		Revision Note														
WM																
Attachment 2 - Site		Figure 2 - Site Context		<p>(A3) GDA 94 MGA 56</p> <p>1:5,000</p>												
28 South Project Ref: 2022-035		<ul style="list-style-type: none"> Site DCDB data Baseline_roads_and_tracks Road Networks QLD Waterways for Waterway Barrier Works Waterways Rail_network 														
<small>Source: D:\Dropbox\Projects\2022\2022-035 (Mt Coot-tha Light Show)\Data\GIS</small>		<small>Data Sources: Qld Globe (SIPS 2016); Digital Cadastre Database (Dept. Natural Resources, 2021); Roads (Dept. Natural Resources, 2020); Watercourses (Dept. Natural Resources, 2020); Contours (Dept. Natural Resources 2016).</small>														



ATTACHMENT 3



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 29-Jun-2022

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar)	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	73
Listed Migratory Species:	38

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	740
Commonwealth Heritage Places:	6
Listed Marine Species:	73
Whales and Other Cetaceans:	1
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	2
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	21
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar Wetlands)

[[Resource Information](#)]

Ramsar Site Name	Proximity	Buffer Status
Moreton bay	10 - 20km upstream from Ramsar site	In feature area

Listed Threatened Ecological Communities

[[Resource Information](#)]

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

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community may occur within area	In feature area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur within area	In feature area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area	In feature area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community may occur within area	In feature area

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat likely to occur within area	In feature area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea antipodensis gibsoni Gibson's Albatross [82270]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat known to occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat may occur within area	In feature area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat known to occur within area	In feature area

FISH

Epinephelus daemeli Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Neoceratodus forsteri Australian Lungfish, Queensland Lungfish [67620]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Thunnus maccoyii Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

FROG

Mixophyes fleayi Fleay's Frog [25960]	Endangered	Species or species habitat may occur within area	In feature area
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INSECT

Argynnis hyperbius inconstans Australian Fritillary [88056]	Critically Endangered	Species or species habitat may occur within area	In feature area
Phyllodes imperialis smithersi Pink Underwing Moth [86084]	Endangered	Species or species habitat may occur within area	In buffer area only

MAMMAL

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat may occur within area	In feature area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area	In feature area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat likely to occur within area	In feature area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat may occur within area	In feature area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Petrogale penicillata Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
Potorous tridactylus tridactylus Long-nosed Potoroo (northern) [66645]	Vulnerable	Species or species habitat may occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

PLANT

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arthraxon hispidus Hairy-joint Grass [9338]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Corchorus cunninghamii Native Jute [14659]	Endangered	Species or species habitat known to occur within area	In feature area
Cryptocarya foetida Stinking Cryptocarya, Stinking Laurel [11976]	Vulnerable	Species or species habitat may occur within area	In feature area
Cupaniopsis shirleyana Wedge-leaf Tuckeroo [3205]	Vulnerable	Species or species habitat may occur within area	In feature area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Gossia gonoclada Angle-stemmed Myrtle [78866]	Endangered	Species or species habitat known to occur within area	In buffer area only
Leichhardtia longiloba listed as Marsdenia longiloba Clear Milkvine [91911]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Lepidium peregrinum Wandering Pepper-cress [14035]	Endangered	Species or species habitat may occur within area	In buffer area only
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat known to occur within area	In feature area
Macadamia ternifolia Small-fruited Queensland Nut, Gympie Nut [7214]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macadamia tetraphylla Rough-shelled Bush Nut, Macadamia Nut, Rough-shelled Macadamia, Rough-leaved Queensland Nut [6581]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Notelaea ipsviciensis Cooneana Olive [81858]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Rhodomyrtus psidioides Native Guava [19162]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Sophora fraseri [8836]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area	In feature area
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
Coeranoscincus reticulatus Three-toed Snake-tooth Skink [59628]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat may occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only

SHARK

Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
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Listed Migratory Species

[[Resource Information](#)]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Ardena grisea Sooty Shearwater [82651]		Species or species habitat may occur within area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Marine Species			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Roosting known to occur within area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia			
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

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

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

Commonwealth Land Name	State	Buffer Status
Defence		
Defence - ADFRU BRISBANE - JETSET CENTRE [31862]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30203]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30202]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30199]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30198]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30195]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30194]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30197]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30196]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30206]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30207]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30204]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30205]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30201]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30200]	QLD	In buffer area only
Defence - ST LUCIA TRAINING DEPOT [30208]	QLD	In buffer area only
Defence - Training logistic centre [30889]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30888]	QLD	In buffer area only
Defence - Training logistic centre [30713]	QLD	In buffer area only
Defence - Training logistic centre [30712]	QLD	In buffer area only
Defence - Training logistic centre [30715]	QLD	In buffer area only
Defence - Training logistic centre [30303]	QLD	In buffer area only
Defence - Training logistic centre [30308]	QLD	In buffer area only
Defence - Training logistic centre [30309]	QLD	In buffer area only
Defence - Training logistic centre [30306]	QLD	In buffer area only
Defence - Training logistic centre [30710]	QLD	In buffer area only
Defence - Training logistic centre [30930]	QLD	In buffer area only
Defence - Training logistic centre [30387]	QLD	In buffer area only
Defence - Training logistic centre [30931]	QLD	In buffer area only
Defence - Training logistic centre [30386]	QLD	In buffer area only
Defence - Training logistic centre [30385]	QLD	In buffer area only
Defence - Training logistic centre [30384]	QLD	In buffer area only
Defence - Training logistic centre [30419]	QLD	In buffer area only
Defence - Training logistic centre [30551]	QLD	In buffer area only
Defence - Training logistic centre [30938]	QLD	In buffer area only
Defence - Training logistic centre [30939]	QLD	In buffer area only
Defence - Training logistic centre [30659]	QLD	In buffer area only
Defence - Training logistic centre [30558]	QLD	In buffer area only
Defence - Training logistic centre [30699]	QLD	In buffer area only
Defence - Training logistic centre [30706]	QLD	In buffer area only
Defence - Training logistic centre [30559]	QLD	In buffer area only
Defence - Training logistic centre [30383]	QLD	In buffer area only
Defence - Training logistic centre [30382]	QLD	In buffer area only
Defence - Training logistic centre [30381]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30380]	QLD	In buffer area only
Defence - Training logistic centre [30651]	QLD	In buffer area only
Defence - Training logistic centre [30494]	QLD	In buffer area only
Defence - Training logistic centre [30495]	QLD	In buffer area only
Defence - Training logistic centre [30707]	QLD	In buffer area only
Defence - Training logistic centre [30697]	QLD	In buffer area only
Defence - Training logistic centre [30851]	QLD	In buffer area only
Defence - Training logistic centre [30520]	QLD	In buffer area only
Defence - Training logistic centre [30698]	QLD	In buffer area only
Defence - Training logistic centre [30488]	QLD	In buffer area only
Defence - Training logistic centre [30510]	QLD	In buffer area only
Defence - Training logistic centre [30522]	QLD	In buffer area only
Defence - Training logistic centre [30389]	QLD	In buffer area only
Defence - Training logistic centre [30521]	QLD	In buffer area only
Defence - Training logistic centre [30388]	QLD	In buffer area only
Defence - Training logistic centre [30719]	QLD	In buffer area only
Defence - Training logistic centre [30525]	QLD	In buffer area only
Defence - Training logistic centre [30524]	QLD	In buffer area only
Defence - Training logistic centre [30527]	QLD	In buffer area only
Defence - Training logistic centre [30526]	QLD	In buffer area only
Defence - Training logistic centre [30528]	QLD	In buffer area only
Defence - Training logistic centre [30906]	QLD	In buffer area only
Defence - Training logistic centre [30901]	QLD	In buffer area only
Defence - Training logistic centre [30904]	QLD	In buffer area only
Defence - Training logistic centre [30907]	QLD	In buffer area only
Defence - Training logistic centre [30922]	QLD	In buffer area only
Defence - Training logistic centre [30923]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30920]	QLD	In buffer area only
Defence - Training logistic centre [30921]	QLD	In buffer area only
Defence - Training logistic centre [30926]	QLD	In buffer area only
Defence - Training logistic centre [30927]	QLD	In buffer area only
Defence - Training logistic centre [30924]	QLD	In buffer area only
Defence - Training logistic centre [30925]	QLD	In buffer area only
Defence - Training logistic centre [30290]	QLD	In buffer area only
Defence - Training logistic centre [30291]	QLD	In buffer area only
Defence - Training logistic centre [30281]	QLD	In buffer area only
Defence - Training logistic centre [30677]	QLD	In buffer area only
Defence - Training logistic centre [30900]	QLD	In buffer area only
Defence - Training logistic centre [30676]	QLD	In buffer area only
Defence - Training logistic centre [30498]	QLD	In buffer area only
Defence - Training logistic centre [30675]	QLD	In buffer area only
Defence - Training logistic centre [30902]	QLD	In buffer area only
Defence - Training logistic centre [30693]	QLD	In buffer area only
Defence - Training logistic centre [30499]	QLD	In buffer area only
Defence - Training logistic centre [30909]	QLD	In buffer area only
Defence - Training logistic centre [30908]	QLD	In buffer area only
Defence - Training logistic centre [30692]	QLD	In buffer area only
Defence - Training logistic centre [30664]	QLD	In buffer area only
Defence - Training logistic centre [30287]	QLD	In buffer area only
Defence - Training logistic centre [30665]	QLD	In buffer area only
Defence - Training logistic centre [30284]	QLD	In buffer area only
Defence - Training logistic centre [30285]	QLD	In buffer area only
Defence - Training logistic centre [30282]	QLD	In buffer area only
Defence - Training logistic centre [30283]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30280]	QLD	In buffer area only
Defence - Training logistic centre [30884]	QLD	In buffer area only
Defence - Training logistic centre [30717]	QLD	In buffer area only
Defence - Training logistic centre [30716]	QLD	In buffer area only
Defence - Training logistic centre [30880]	QLD	In buffer area only
Defence - Training logistic centre [30887]	QLD	In buffer area only
Defence - Training logistic centre [30886]	QLD	In buffer area only
Defence - Training logistic centre [30885]	QLD	In buffer area only
Defence - Training logistic centre [30668]	QLD	In buffer area only
Defence - Training logistic centre [30883]	QLD	In buffer area only
Defence - Training logistic centre [30882]	QLD	In buffer area only
Defence - Training logistic centre [30881]	QLD	In buffer area only
Defence - Training logistic centre [30288]	QLD	In buffer area only
Defence - Training logistic centre [30660]	QLD	In buffer area only
Defence - Training logistic centre [30289]	QLD	In buffer area only
Defence - Training logistic centre [30661]	QLD	In buffer area only
Defence - Training logistic centre [30937]	QLD	In buffer area only
Defence - Training logistic centre [30666]	QLD	In buffer area only
Defence - Training logistic centre [30688]	QLD	In buffer area only
Defence - Training logistic centre [30667]	QLD	In buffer area only
Defence - Training logistic centre [30703]	QLD	In buffer area only
Defence - Training logistic centre [30702]	QLD	In buffer area only
Defence - Training logistic centre [30286]	QLD	In buffer area only
Defence - Training logistic centre [30662]	QLD	In buffer area only
Defence - Training logistic centre [30663]	QLD	In buffer area only
Defence - Training logistic centre [30932]	QLD	In buffer area only
Defence - Training logistic centre [30701]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30700]	QLD	In buffer area only
Defence - Training logistic centre [30935]	QLD	In buffer area only
Defence - Training logistic centre [30936]	QLD	In buffer area only
Defence - Training logistic centre [30933]	QLD	In buffer area only
Defence - Training logistic centre [30934]	QLD	In buffer area only
Defence - Training logistic centre [30555]	QLD	In buffer area only
Defence - Training logistic centre [30709]	QLD	In buffer area only
Defence - Training logistic centre [30689]	QLD	In buffer area only
Defence - Training logistic centre [30556]	QLD	In buffer area only
Defence - Training logistic centre [30563]	QLD	In buffer area only
Defence - Training logistic centre [30418]	QLD	In buffer area only
Defence - Training logistic centre [30492]	QLD	In buffer area only
Defence - Training logistic centre [30554]	QLD	In buffer area only
Defence - Training logistic centre [30561]	QLD	In buffer area only
Defence - Training logistic centre [30557]	QLD	In buffer area only
Defence - Training logistic centre [30562]	QLD	In buffer area only
Defence - Training logistic centre [30552]	QLD	In buffer area only
Defence - Training logistic centre [30705]	QLD	In buffer area only
Defence - Training logistic centre [30414]	QLD	In buffer area only
Defence - Training logistic centre [30669]	QLD	In buffer area only
Defence - Training logistic centre [30550]	QLD	In buffer area only
Defence - Training logistic centre [30493]	QLD	In buffer area only
Defence - Training logistic centre [30553]	QLD	In buffer area only
Defence - Training logistic centre [30704]	QLD	In buffer area only
Defence - Training logistic centre [30760]	QLD	In buffer area only
Defence - Training logistic centre [30298]	QLD	In buffer area only
Defence - Training logistic centre [30415]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30761]	QLD	In buffer area only
Defence - Training logistic centre [30296]	QLD	In buffer area only
Defence - Training logistic centre [30417]	QLD	In buffer area only
Defence - Training logistic centre [30299]	QLD	In buffer area only
Defence - Training logistic centre [30416]	QLD	In buffer area only
Defence - Training logistic centre [30294]	QLD	In buffer area only
Defence - Training logistic centre [30297]	QLD	In buffer area only
Defence - Training logistic centre [30292]	QLD	In buffer area only
Defence - Training logistic centre [30295]	QLD	In buffer area only
Defence - Training logistic centre [30293]	QLD	In buffer area only
Defence - Training logistic centre [30410]	QLD	In buffer area only
Defence - Training logistic centre [30411]	QLD	In buffer area only
Defence - Training logistic centre [30412]	QLD	In buffer area only
Defence - Training logistic centre [30413]	QLD	In buffer area only
Defence - Training logistic centre [30739]	QLD	In buffer area only
Defence - Training logistic centre [30738]	QLD	In buffer area only
Defence - Training logistic centre [30735]	QLD	In buffer area only
Defence - Training logistic centre [30480]	QLD	In buffer area only
Defence - Training logistic centre [30847]	QLD	In buffer area only
Defence - Training logistic centre [30482]	QLD	In buffer area only
Defence - Training logistic centre [30481]	QLD	In buffer area only
Defence - Training logistic centre [30484]	QLD	In buffer area only
Defence - Training logistic centre [30483]	QLD	In buffer area only
Defence - Training logistic centre [30486]	QLD	In buffer area only
Defence - Training logistic centre [30485]	QLD	In buffer area only
Defence - Training logistic centre [30529]	QLD	In buffer area only
Defence - Training logistic centre [30487]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30846]	QLD	In buffer area only
Defence - Training logistic centre [30708]	QLD	In buffer area only
Defence - Training logistic centre [30489]	QLD	In buffer area only
Defence - Training logistic centre [30840]	QLD	In buffer area only
Defence - Training logistic centre [30951]	QLD	In buffer area only
Defence - Training logistic centre [30950]	QLD	In buffer area only
Defence - Training logistic centre [30845]	QLD	In buffer area only
Defence - Training logistic centre [30844]	QLD	In buffer area only
Defence - Training logistic centre [30843]	QLD	In buffer area only
Defence - Training logistic centre [30842]	QLD	In buffer area only
Defence - Training logistic centre [30336]	QLD	In buffer area only
Defence - Training logistic centre [30337]	QLD	In buffer area only
Defence - Training logistic centre [30334]	QLD	In buffer area only
Defence - Training logistic centre [30335]	QLD	In buffer area only
Defence - Training logistic centre [30332]	QLD	In buffer area only
Defence - Training logistic centre [30333]	QLD	In buffer area only
Defence - Training logistic centre [30330]	QLD	In buffer area only
Defence - Training logistic centre [30331]	QLD	In buffer area only
Defence - Training logistic centre [30338]	QLD	In buffer area only
Defence - Training logistic centre [30670]	QLD	In buffer area only
Defence - Training logistic centre [30407]	QLD	In buffer area only
Defence - Training logistic centre [30406]	QLD	In buffer area only
Defence - Training logistic centre [30405]	QLD	In buffer area only
Defence - Training logistic centre [30404]	QLD	In buffer area only
Defence - Training logistic centre [30403]	QLD	In buffer area only
Defence - Training logistic centre [30402]	QLD	In buffer area only
Defence - Training logistic centre [30401]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30400]	QLD	In buffer area only
Defence - Training logistic centre [30339]	QLD	In buffer area only
Defence - Training logistic centre [30408]	QLD	In buffer area only
Defence - Training logistic centre [30878]	QLD	In buffer area only
Defence - Training logistic centre [30779]	QLD	In buffer area only
Defence - Training logistic centre [30879]	QLD	In buffer area only
Defence - Training logistic centre [30671]	QLD	In buffer area only
Defence - Training logistic centre [30874]	QLD	In buffer area only
Defence - Training logistic centre [30777]	QLD	In buffer area only
Defence - Training logistic centre [30875]	QLD	In buffer area only
Defence - Training logistic centre [30776]	QLD	In buffer area only
Defence - Training logistic centre [30549]	QLD	In buffer area only
Defence - Training logistic centre [30674]	QLD	In buffer area only
Defence - Training logistic centre [30679]	QLD	In buffer area only
Defence - Training logistic centre [30463]	QLD	In buffer area only
Defence - Training logistic centre [30672]	QLD	In buffer area only
Defence - Training logistic centre [30678]	QLD	In buffer area only
Defence - Training logistic centre [30673]	QLD	In buffer area only
Defence - Training logistic centre [30772]	QLD	In buffer area only
Defence - Training logistic centre [30409]	QLD	In buffer area only
Defence - Training logistic centre [30775]	QLD	In buffer area only
Defence - Training logistic centre [30774]	QLD	In buffer area only
Defence - Training logistic centre [30398]	QLD	In buffer area only
Defence - Training logistic centre [30538]	QLD	In buffer area only
Defence - Training logistic centre [30872]	QLD	In buffer area only
Defence - Training logistic centre [30873]	QLD	In buffer area only
Defence - Training logistic centre [30870]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30535]	QLD	In buffer area only
Defence - Training logistic centre [30534]	QLD	In buffer area only
Defence - Training logistic centre [30539]	QLD	In buffer area only
Defence - Training logistic centre [30871]	QLD	In buffer area only
Defence - Training logistic centre [30876]	QLD	In buffer area only
Defence - Training logistic centre [30877]	QLD	In buffer area only
Defence - Training logistic centre [30533]	QLD	In buffer area only
Defence - Training logistic centre [30532]	QLD	In buffer area only
Defence - Training logistic centre [30542]	QLD	In buffer area only
Defence - Training logistic centre [30543]	QLD	In buffer area only
Defence - Training logistic centre [30475]	QLD	In buffer area only
Defence - Training logistic centre [30791]	QLD	In buffer area only
Defence - Training logistic centre [30537]	QLD	In buffer area only
Defence - Training logistic centre [30536]	QLD	In buffer area only
Defence - Training logistic centre [30531]	QLD	In buffer area only
Defence - Training logistic centre [30530]	QLD	In buffer area only
Defence - Training logistic centre [30733]	QLD	In buffer area only
Defence - Training logistic centre [30730]	QLD	In buffer area only
Defence - Training logistic centre [30311]	QLD	In buffer area only
Defence - Training logistic centre [30326]	QLD	In buffer area only
Defence - Training logistic centre [30640]	QLD	In buffer area only
Defence - Training logistic centre [30732]	QLD	In buffer area only
Defence - Training logistic centre [30645]	QLD	In buffer area only
Defence - Training logistic centre [30636]	QLD	In buffer area only
Defence - Training logistic centre [30310]	QLD	In buffer area only
Defence - Training logistic centre [30327]	QLD	In buffer area only
Defence - Training logistic centre [30647]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30644]	QLD	In buffer area only
Defence - Training logistic centre [30314]	QLD	In buffer area only
Defence - Training logistic centre [30649]	QLD	In buffer area only
Defence - Training logistic centre [30648]	QLD	In buffer area only
Defence - Training logistic centre [30319]	QLD	In buffer area only
Defence - Training logistic centre [30734]	QLD	In buffer area only
Defence - Training logistic centre [30737]	QLD	In buffer area only
Defence - Training logistic centre [30736]	QLD	In buffer area only
Defence - Training logistic centre [30731]	QLD	In buffer area only
Defence - Training logistic centre [30720]	QLD	In buffer area only
Defence - Training logistic centre [30721]	QLD	In buffer area only
Defence - Training logistic centre [30722]	QLD	In buffer area only
Defence - Training logistic centre [30723]	QLD	In buffer area only
Defence - Training logistic centre [30363]	QLD	In buffer area only
Defence - Training logistic centre [30641]	QLD	In buffer area only
Defence - Training logistic centre [30725]	QLD	In buffer area only
Defence - Training logistic centre [30724]	QLD	In buffer area only
Defence - Training logistic centre [30727]	QLD	In buffer area only
Defence - Training logistic centre [30726]	QLD	In buffer area only
Defence - Training logistic centre [30460]	QLD	In buffer area only
Defence - Training logistic centre [30548]	QLD	In buffer area only
Defence - Training logistic centre [30462]	QLD	In buffer area only
Defence - Training logistic centre [30465]	QLD	In buffer area only
Defence - Training logistic centre [30621]	QLD	In buffer area only
Defence - Training logistic centre [30729]	QLD	In buffer area only
Defence - Training logistic centre [30467]	QLD	In buffer area only
Defence - Training logistic centre [30464]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30728]	QLD	In buffer area only
Defence - Training logistic centre [30466]	QLD	In buffer area only
Defence - Training logistic centre [30469]	QLD	In buffer area only
Defence - Training logistic centre [30468]	QLD	In buffer area only
Defence - Training logistic centre [30929]	QLD	In buffer area only
Defence - Training logistic centre [30547]	QLD	In buffer area only
Defence - Training logistic centre [30546]	QLD	In buffer area only
Defence - Training logistic centre [30541]	QLD	In buffer area only
Defence - Training logistic centre [30540]	QLD	In buffer area only
Defence - Training logistic centre [30461]	QLD	In buffer area only
Defence - Training logistic centre [30545]	QLD	In buffer area only
Defence - Training logistic centre [30544]	QLD	In buffer area only
Defence - Training logistic centre [30854]	QLD	In buffer area only
Defence - Training logistic centre [30855]	QLD	In buffer area only
Defence - Training logistic centre [30857]	QLD	In buffer area only
Defence - Training logistic centre [30856]	QLD	In buffer area only
Defence - Training logistic centre [30853]	QLD	In buffer area only
Defence - Training logistic centre [30852]	QLD	In buffer area only
Defence - Training logistic centre [30569]	QLD	In buffer area only
Defence - Training logistic centre [30928]	QLD	In buffer area only
Defence - Training logistic centre [30588]	QLD	In buffer area only
Defence - Training logistic centre [30620]	QLD	In buffer area only
Defence - Training logistic centre [30623]	QLD	In buffer area only
Defence - Training logistic centre [30622]	QLD	In buffer area only
Defence - Training logistic centre [30625]	QLD	In buffer area only
Defence - Training logistic centre [30624]	QLD	In buffer area only
Defence - Training logistic centre [30627]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30626]	QLD	In buffer area only
Defence - Training logistic centre [30826]	QLD	In buffer area only
Defence - Training logistic centre [30827]	QLD	In buffer area only
Defence - Training logistic centre [30824]	QLD	In buffer area only
Defence - Training logistic centre [30825]	QLD	In buffer area only
Defence - Training logistic centre [30821]	QLD	In buffer area only
Defence - Training logistic centre [30630]	QLD	In buffer area only
Defence - Training logistic centre [30820]	QLD	In buffer area only
Defence - Training logistic centre [30325]	QLD	In buffer area only
Defence - Training logistic centre [30634]	QLD	In buffer area only
Defence - Training logistic centre [30329]	QLD	In buffer area only
Defence - Training logistic centre [30328]	QLD	In buffer area only
Defence - Training logistic centre [30639]	QLD	In buffer area only
Defence - Training logistic centre [30638]	QLD	In buffer area only
Defence - Training logistic centre [30633]	QLD	In buffer area only
Defence - Training logistic centre [30632]	QLD	In buffer area only
Defence - Training logistic centre [30323]	QLD	In buffer area only
Defence - Training logistic centre [30785]	QLD	In buffer area only
Defence - Training logistic centre [30786]	QLD	In buffer area only
Defence - Training logistic centre [30787]	QLD	In buffer area only
Defence - Training logistic centre [30780]	QLD	In buffer area only
Defence - Training logistic centre [30789]	QLD	In buffer area only
Defence - Training logistic centre [30784]	QLD	In buffer area only
Defence - Training logistic centre [30571]	QLD	In buffer area only
Defence - Training logistic centre [30781]	QLD	In buffer area only
Defence - Training logistic centre [30574]	QLD	In buffer area only
Defence - Training logistic centre [30782]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30575]	QLD	In buffer area only
Defence - Training logistic centre [30783]	QLD	In buffer area only
Defence - Training logistic centre [30572]	QLD	In buffer area only
Defence - Training logistic centre [30823]	QLD	In buffer area only
Defence - Training logistic centre [30573]	QLD	In buffer area only
Defence - Training logistic centre [30579]	QLD	In buffer area only
Defence - Training logistic centre [30792]	QLD	In buffer area only
Defence - Training logistic centre [30578]	QLD	In buffer area only
Defence - Training logistic centre [30793]	QLD	In buffer area only
Defence - Training logistic centre [30577]	QLD	In buffer area only
Defence - Training logistic centre [30576]	QLD	In buffer area only
Defence - Training logistic centre [30796]	QLD	In buffer area only
Defence - Training logistic centre [30797]	QLD	In buffer area only
Defence - Training logistic centre [30794]	QLD	In buffer area only
Defence - Training logistic centre [30628]	QLD	In buffer area only
Defence - Training logistic centre [30795]	QLD	In buffer area only
Defence - Training logistic centre [30580]	QLD	In buffer area only
Defence - Training logistic centre [30318]	QLD	In buffer area only
Defence - Training logistic centre [30798]	QLD	In buffer area only
Defence - Training logistic centre [30799]	QLD	In buffer area only
Defence - Training logistic centre [30757]	QLD	In buffer area only
Defence - Training logistic centre [30822]	QLD	In buffer area only
Defence - Training logistic centre [30756]	QLD	In buffer area only
Defence - Training logistic centre [30393]	QLD	In buffer area only
Defence - Training logistic centre [30751]	QLD	In buffer area only
Defence - Training logistic centre [30750]	QLD	In buffer area only
Defence - Training logistic centre [30399]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30313]	QLD	In buffer area only
Defence - Training logistic centre [30390]	QLD	In buffer area only
Defence - Training logistic centre [30686]	QLD	In buffer area only
Defence - Training logistic centre [30397]	QLD	In buffer area only
Defence - Training logistic centre [30755]	QLD	In buffer area only
Defence - Training logistic centre [30392]	QLD	In buffer area only
Defence - Training logistic centre [30754]	QLD	In buffer area only
Defence - Training logistic centre [30391]	QLD	In buffer area only
Defence - Training logistic centre [30394]	QLD	In buffer area only
Defence - Training logistic centre [30656]	QLD	In buffer area only
Defence - Training logistic centre [30307]	QLD	In buffer area only
Defence - Training logistic centre [30396]	QLD	In buffer area only
Defence - Training logistic centre [30658]	QLD	In buffer area only
Defence - Training logistic centre [30395]	QLD	In buffer area only
Defence - Training logistic centre [30305]	QLD	In buffer area only
Defence - Training logistic centre [30753]	QLD	In buffer area only
Defence - Training logistic centre [30752]	QLD	In buffer area only
Defence - Training logistic centre [30570]	QLD	In buffer area only
Defence - Training logistic centre [30300]	QLD	In buffer area only
Defence - Training logistic centre [30565]	QLD	In buffer area only
Defence - Training logistic centre [30714]	QLD	In buffer area only
Defence - Training logistic centre [30741]	QLD	In buffer area only
Defence - Training logistic centre [30304]	QLD	In buffer area only
Defence - Training logistic centre [30740]	QLD	In buffer area only
Defence - Training logistic centre [30301]	QLD	In buffer area only
Defence - Training logistic centre [30749]	QLD	In buffer area only
Defence - Training logistic centre [30302]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30748]	QLD	In buffer area only
Defence - Training logistic centre [30849]	QLD	In buffer area only
Defence - Training logistic centre [30745]	QLD	In buffer area only
Defence - Training logistic centre [30744]	QLD	In buffer area only
Defence - Training logistic centre [30743]	QLD	In buffer area only
Defence - Training logistic centre [30758]	QLD	In buffer area only
Defence - Training logistic centre [30742]	QLD	In buffer area only
Defence - Training logistic centre [30848]	QLD	In buffer area only
Defence - Training logistic centre [30747]	QLD	In buffer area only
Defence - Training logistic centre [30790]	QLD	In buffer area only
Defence - Training logistic centre [30746]	QLD	In buffer area only
Defence - Training logistic centre [30585]	QLD	In buffer area only
Defence - Training logistic centre [30582]	QLD	In buffer area only
Defence - Training logistic centre [30583]	QLD	In buffer area only
Defence - Training logistic centre [30960]	QLD	In buffer area only
Defence - Training logistic centre [30629]	QLD	In buffer area only
Defence - Training logistic centre [30961]	QLD	In buffer area only
Defence - Training logistic centre [30581]	QLD	In buffer area only
Defence - Training logistic centre [30962]	QLD	In buffer area only
Defence - Training logistic centre [30952]	QLD	In buffer area only
Defence - Training logistic centre [30949]	QLD	In buffer area only
Defence - Training logistic centre [30759]	QLD	In buffer area only
Defence - Training logistic centre [30919]	QLD	In buffer area only
Defence - Training logistic centre [30829]	QLD	In buffer area only
Defence - Training logistic centre [30918]	QLD	In buffer area only
Defence - Training logistic centre [30584]	QLD	In buffer area only
Defence - Training logistic centre [30560]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30657]	QLD	In buffer area only
Defence - Training logistic centre [30778]	QLD	In buffer area only
Defence - Training logistic centre [30654]	QLD	In buffer area only
Defence - Training logistic centre [30451]	QLD	In buffer area only
Defence - Training logistic centre [30655]	QLD	In buffer area only
Defence - Training logistic centre [30450]	QLD	In buffer area only
Defence - Training logistic centre [30652]	QLD	In buffer area only
Defence - Training logistic centre [30635]	QLD	In buffer area only
Defence - Training logistic centre [30653]	QLD	In buffer area only
Defence - Training logistic centre [30650]	QLD	In buffer area only
Defence - Training logistic centre [30858]	QLD	In buffer area only
Defence - Training logistic centre [30718]	QLD	In buffer area only
Defence - Training logistic centre [30324]	QLD	In buffer area only
Defence - Training logistic centre [30587]	QLD	In buffer area only
Defence - Training logistic centre [30903]	QLD	In buffer area only
Defence - Training logistic centre [30586]	QLD	In buffer area only
Defence - Training logistic centre [30637]	QLD	In buffer area only
Defence - Training logistic centre [30631]	QLD	In buffer area only
Defence - Training logistic centre [30322]	QLD	In buffer area only
Defence - Training logistic centre [30321]	QLD	In buffer area only
Defence - Training logistic centre [30320]	QLD	In buffer area only
Defence - Training logistic centre [30859]	QLD	In buffer area only
Defence - Training logistic centre [30891]	QLD	In buffer area only
Defence - Training logistic centre [30890]	QLD	In buffer area only
Defence - Training logistic centre [30956]	QLD	In buffer area only
Defence - Training logistic centre [30957]	QLD	In buffer area only
Defence - Training logistic centre [30897]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30896]	QLD	In buffer area only
Defence - Training logistic centre [30895]	QLD	In buffer area only
Defence - Training logistic centre [30894]	QLD	In buffer area only
Defence - Training logistic centre [30893]	QLD	In buffer area only
Defence - Training logistic centre [30892]	QLD	In buffer area only
Defence - Training logistic centre [30457]	QLD	In buffer area only
Defence - Training logistic centre [30458]	QLD	In buffer area only
Defence - Training logistic centre [30455]	QLD	In buffer area only
Defence - Training logistic centre [30456]	QLD	In buffer area only
Defence - Training logistic centre [30453]	QLD	In buffer area only
Defence - Training logistic centre [30454]	QLD	In buffer area only
Defence - Training logistic centre [30452]	QLD	In buffer area only
Defence - Training logistic centre [30831]	QLD	In buffer area only
Defence - Training logistic centre [30459]	QLD	In buffer area only
Defence - Training logistic centre [30837]	QLD	In buffer area only
Defence - Training logistic centre [30312]	QLD	In buffer area only
Defence - Training logistic centre [30643]	QLD	In buffer area only
Defence - Training logistic centre [30839]	QLD	In buffer area only
Defence - Training logistic centre [30955]	QLD	In buffer area only
Defence - Training logistic centre [30642]	QLD	In buffer area only
Defence - Training logistic centre [30954]	QLD	In buffer area only
Defence - Training logistic centre [30898]	QLD	In buffer area only
Defence - Training logistic centre [30943]	QLD	In buffer area only
Defence - Training logistic centre [30953]	QLD	In buffer area only
Defence - Training logistic centre [30899]	QLD	In buffer area only
Defence - Training logistic centre [30421]	QLD	In buffer area only
Defence - Training logistic centre [30420]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30423]	QLD	In buffer area only
Defence - Training logistic centre [30422]	QLD	In buffer area only
Defence - Training logistic centre [30425]	QLD	In buffer area only
Defence - Training logistic centre [30424]	QLD	In buffer area only
Defence - Training logistic centre [30427]	QLD	In buffer area only
Defence - Training logistic centre [30426]	QLD	In buffer area only
Defence - Training logistic centre [30429]	QLD	In buffer area only
Defence - Training logistic centre [30428]	QLD	In buffer area only
Defence - Training logistic centre [30347]	QLD	In buffer area only
Defence - Training logistic centre [30374]	QLD	In buffer area only
Defence - Training logistic centre [30474]	QLD	In buffer area only
Defence - Training logistic centre [30377]	QLD	In buffer area only
Defence - Training logistic centre [30375]	QLD	In buffer area only
Defence - Training logistic centre [30471]	QLD	In buffer area only
Defence - Training logistic centre [30370]	QLD	In buffer area only
Defence - Training logistic centre [30470]	QLD	In buffer area only
Defence - Training logistic centre [30373]	QLD	In buffer area only
Defence - Training logistic centre [30473]	QLD	In buffer area only
Defence - Training logistic centre [30376]	QLD	In buffer area only
Defence - Training logistic centre [30472]	QLD	In buffer area only
Defence - Training logistic centre [30371]	QLD	In buffer area only
Defence - Training logistic centre [30316]	QLD	In buffer area only
Defence - Training logistic centre [30341]	QLD	In buffer area only
Defence - Training logistic centre [30478]	QLD	In buffer area only
Defence - Training logistic centre [30340]	QLD	In buffer area only
Defence - Training logistic centre [30609]	QLD	In buffer area only
Defence - Training logistic centre [30358]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30357]	QLD	In buffer area only
Defence - Training logistic centre [30608]	QLD	In buffer area only
Defence - Training logistic centre [30359]	QLD	In buffer area only
Defence - Training logistic centre [30606]	QLD	In buffer area only
Defence - Training logistic centre [30353]	QLD	In buffer area only
Defence - Training logistic centre [30604]	QLD	In buffer area only
Defence - Training logistic centre [30607]	QLD	In buffer area only
Defence - Training logistic centre [30352]	QLD	In buffer area only
Defence - Training logistic centre [30378]	QLD	In buffer area only
Defence - Training logistic centre [30315]	QLD	In buffer area only
Defence - Training logistic centre [30589]	QLD	In buffer area only
Defence - Training logistic centre [30646]	QLD	In buffer area only
Defence - Training logistic centre [30317]	QLD	In buffer area only
Defence - Training logistic centre [30612]	QLD	In buffer area only
Defence - Training logistic centre [30610]	QLD	In buffer area only
Defence - Training logistic centre [30345]	QLD	In buffer area only
Defence - Training logistic centre [30476]	QLD	In buffer area only
Defence - Training logistic centre [30278]	QLD	In buffer area only
Defence - Training logistic centre [30477]	QLD	In buffer area only
Defence - Training logistic centre [30602]	QLD	In buffer area only
Defence - Training logistic centre [30351]	QLD	In buffer area only
Defence - Training logistic centre [30372]	QLD	In buffer area only
Defence - Training logistic centre [30379]	QLD	In buffer area only
Defence - Training logistic centre [30277]	QLD	In buffer area only
Defence - Training logistic centre [30958]	QLD	In buffer area only
Defence - Training logistic centre [30838]	QLD	In buffer area only
Defence - Training logistic centre [30684]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30685]	QLD	In buffer area only
Defence - Training logistic centre [30830]	QLD	In buffer area only
Defence - Training logistic centre [30833]	QLD	In buffer area only
Defence - Training logistic centre [30496]	QLD	In buffer area only
Defence - Training logistic centre [30835]	QLD	In buffer area only
Defence - Training logistic centre [30832]	QLD	In buffer area only
Defence - Training logistic centre [30836]	QLD	In buffer area only
Defence - Training logistic centre [30711]	QLD	In buffer area only
Defence - Training logistic centre [30479]	QLD	In buffer area only
Defence - Training logistic centre [30959]	QLD	In buffer area only
Defence - Training logistic centre [30834]	QLD	In buffer area only
Defence - Training logistic centre [30615]	QLD	In buffer area only
Defence - Training logistic centre [30279]	QLD	In buffer area only
Defence - Training logistic centre [30342]	QLD	In buffer area only
Defence - Training logistic centre [30564]	QLD	In buffer area only
Defence - Training logistic centre [30682]	QLD	In buffer area only
Defence - Training logistic centre [30683]	QLD	In buffer area only
Defence - Training logistic centre [30680]	QLD	In buffer area only
Defence - Training logistic centre [30567]	QLD	In buffer area only
Defence - Training logistic centre [30566]	QLD	In buffer area only
Defence - Training logistic centre [30490]	QLD	In buffer area only
Defence - Training logistic centre [30497]	QLD	In buffer area only
Defence - Training logistic centre [30681]	QLD	In buffer area only
Defence - Training logistic centre [30687]	QLD	In buffer area only
Defence - Training logistic centre [30350]	QLD	In buffer area only
Defence - Training logistic centre [30905]	QLD	In buffer area only
Defence - Training logistic centre [30443]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30442]	QLD	In buffer area only
Defence - Training logistic centre [30911]	QLD	In buffer area only
Defence - Training logistic centre [30354]	QLD	In buffer area only
Defence - Training logistic centre [30916]	QLD	In buffer area only
Defence - Training logistic centre [30601]	QLD	In buffer area only
Defence - Training logistic centre [30913]	QLD	In buffer area only
Defence - Training logistic centre [30600]	QLD	In buffer area only
Defence - Training logistic centre [30910]	QLD	In buffer area only
Defence - Training logistic centre [30603]	QLD	In buffer area only
Defence - Training logistic centre [30915]	QLD	In buffer area only
Defence - Training logistic centre [30828]	QLD	In buffer area only
Defence - Training logistic centre [30917]	QLD	In buffer area only
Defence - Training logistic centre [30940]	QLD	In buffer area only
Defence - Training logistic centre [30914]	QLD	In buffer area only
Defence - Training logistic centre [30941]	QLD	In buffer area only
Defence - Training logistic centre [30912]	QLD	In buffer area only
Defence - Training logistic centre [30788]	QLD	In buffer area only
Defence - Training logistic centre [30355]	QLD	In buffer area only
Defence - Training logistic centre [30945]	QLD	In buffer area only
Defence - Training logistic centre [30942]	QLD	In buffer area only
Defence - Training logistic centre [30947]	QLD	In buffer area only
Defence - Training logistic centre [30944]	QLD	In buffer area only
Defence - Training logistic centre [30356]	QLD	In buffer area only
Defence - Training logistic centre [30946]	QLD	In buffer area only
Defence - Training logistic centre [30605]	QLD	In buffer area only
Defence - Training logistic centre [30948]	QLD	In buffer area only
Defence - Training logistic centre [30850]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30368]	QLD	In buffer area only
Defence - Training logistic centre [30369]	QLD	In buffer area only
Defence - Training logistic centre [30360]	QLD	In buffer area only
Defence - Training logistic centre [30361]	QLD	In buffer area only
Defence - Training logistic centre [30366]	QLD	In buffer area only
Defence - Training logistic centre [30367]	QLD	In buffer area only
Defence - Training logistic centre [30364]	QLD	In buffer area only
Defence - Training logistic centre [30365]	QLD	In buffer area only
Defence - Training logistic centre [30448]	QLD	In buffer area only
Defence - Training logistic centre [30362]	QLD	In buffer area only
Defence - Training logistic centre [30440]	QLD	In buffer area only
Defence - Training logistic centre [30447]	QLD	In buffer area only
Defence - Training logistic centre [30441]	QLD	In buffer area only
Defence - Training logistic centre [30444]	QLD	In buffer area only
Defence - Training logistic centre [30449]	QLD	In buffer area only
Defence - Training logistic centre [30446]	QLD	In buffer area only
Defence - Training logistic centre [30445]	QLD	In buffer area only
Defence - Training logistic centre [30598]	QLD	In buffer area only
Defence - Training logistic centre [30695]	QLD	In buffer area only
Defence - Training logistic centre [30599]	QLD	In buffer area only
Defence - Training logistic centre [30694]	QLD	In buffer area only
Defence - Training logistic centre [30841]	QLD	In buffer area only
Defence - Training logistic centre [30696]	QLD	In buffer area only
Defence - Training logistic centre [30813]	QLD	In buffer area only
Defence - Training logistic centre [30812]	QLD	In buffer area only
Defence - Training logistic centre [30811]	QLD	In buffer area only
Defence - Training logistic centre [30568]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30810]	QLD	In buffer area only
Defence - Training logistic centre [30511]	QLD	In buffer area only
Defence - Training logistic centre [30816]	QLD	In buffer area only
Defence - Training logistic centre [30817]	QLD	In buffer area only
Defence - Training logistic centre [30814]	QLD	In buffer area only
Defence - Training logistic centre [30815]	QLD	In buffer area only
Defence - Training logistic centre [30690]	QLD	In buffer area only
Defence - Training logistic centre [30691]	QLD	In buffer area only
Defence - Training logistic centre [30519]	QLD	In buffer area only
Defence - Training logistic centre [30518]	QLD	In buffer area only
Defence - Training logistic centre [30807]	QLD	In buffer area only
Defence - Training logistic centre [30800]	QLD	In buffer area only
Defence - Training logistic centre [30614]	QLD	In buffer area only
Defence - Training logistic centre [30805]	QLD	In buffer area only
Defence - Training logistic centre [30806]	QLD	In buffer area only
Defence - Training logistic centre [30591]	QLD	In buffer area only
Defence - Training logistic centre [30809]	QLD	In buffer area only
Defence - Training logistic centre [30343]	QLD	In buffer area only
Defence - Training logistic centre [30804]	QLD	In buffer area only
Defence - Training logistic centre [30593]	QLD	In buffer area only
Defence - Training logistic centre [30590]	QLD	In buffer area only
Defence - Training logistic centre [30808]	QLD	In buffer area only
Defence - Training logistic centre [30592]	QLD	In buffer area only
Defence - Training logistic centre [30595]	QLD	In buffer area only
Defence - Training logistic centre [30594]	QLD	In buffer area only
Defence - Training logistic centre [30597]	QLD	In buffer area only
Defence - Training logistic centre [30596]	QLD	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - Training logistic centre [30803]	QLD	In buffer area only
Defence - Training logistic centre [30802]	QLD	In buffer area only
Defence - Training logistic centre [30801]	QLD	In buffer area only
Defence - Training logistic centre [30766]	QLD	In buffer area only
Defence - Training logistic centre [30769]	QLD	In buffer area only
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Defence - Training logistic centre [30767]	QLD	In buffer area only
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Commonwealth Land Name	State	Buffer Status
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Defence - Training logistic centre [30867]	QLD	In buffer area only
Defence - Training logistic centre [30868]	QLD	In buffer area only
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Commonwealth Land Name	State	Buffer Status
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Defence - YERONGA - MILITARY HOSPITAL [30992]	QLD	In buffer area only
Defence - YERONGA - MILITARY HOSPITAL [30997]	QLD	In buffer area only
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Commonwealth Land Name	State	Buffer Status
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Defence - YERONGA - MILITARY HOSPITAL [30994]	QLD	In buffer area only
Defence - YERONGA - MILITARY HOSPITAL [30995]	QLD	In buffer area only

Commonwealth Heritage Places			[Resource Information]
Name	State	Status	Buffer Status
Historic			
Brisbane General Post Office	QLD	Listed place	In buffer area only
Enoggera Magazine Complex	QLD	Listed place	In buffer area only
Remount Complex (former)	QLD	Listed place	In buffer area only
School Of Musketry (former)	QLD	Listed place	In buffer area only

Name	State	Status	Buffer Status
Small Arms Magazine (former)	QLD	Listed place	In buffer area only
Victoria Barracks	QLD	Listed place	In buffer area only

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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardena grisea as Puffinus griseus Sooty Shearwater [82651]		Species or species habitat may occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Breeding likely to occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea antipodensis gibsoni as Diomedea gibsoni Gibson's Albatross [82270]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Roosting known to occur within area overfly marine area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In buffer area only
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Neophema chrysostoma Blue-winged Parrot [726]		Species or species habitat may occur within area overfly marine area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In feature area
Fish			
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area	In buffer area only
Campichthys tryoni Tryon's Pipefish [66193]		Species or species habitat may occur within area	In buffer area only
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area	In buffer area only
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area	In buffer area only
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area	In buffer area only
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In buffer area only
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area	In buffer area only
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area	In buffer area only
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In buffer area only
Hippocampus kelloggi Kellogg's Seahorse, Great Seahorse [66723]		Species or species habitat may occur within area	In buffer area only
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In buffer area only
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area	In buffer area only
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area	In buffer area only
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In buffer area only
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area	In buffer area only
Micrognathus brevis thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area	In buffer area only
Microphis manadensis Manado Pipefish, Manado River Pipefish [66258]		Species or species habitat may occur within area	In buffer area only
Solegnathus dunckeri Duncker's Pipehorse [66271]		Species or species habitat may occur within area	In buffer area only
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In buffer area only
Solegnathus spinosissimus Spiny Pipehorse, Australian Spiny Pipehorse [66275]		Species or species habitat may occur within area	In buffer area only
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In buffer area only
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In buffer area only
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In buffer area only
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In buffer area only

Reptile

Caretta caretta Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Orcaella heinsohni as Orcaella brevirostris			
Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area	In buffer area only

Extra Information

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

Protected Area Name	Reserve Type	State	Buffer Status
D'Aguilar	National Park	QLD	In buffer area only
Indooroopilly Island	Conservation Park	QLD	In buffer area only

EPBC Act Referrals [\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Brisbane Inner West Public School, Gailey Road, Toowong	2022/09265		Lodgement	In buffer area only

Not controlled action

Brisbane GPO & Office Building 259 Queen Street, Brisbane QLD	2015/7556	Not Controlled Action	Completed	In buffer area only
Conservation Works and Additions to Brisbane General Post Office	2010/5405	Not Controlled Action	Completed	In buffer area only
construction of an multi-agency ecosciences precinct	2007/3563	Not Controlled Action	Completed	In buffer area only
Cross River Rail connecting Dutton Park to Bowen Hills, Brisbane, Qld	2017/7961	Not Controlled Action	Completed	In buffer area only
Dedicated Bus Carriageway across Brisbane River	2004/1340	Not Controlled Action	Completed	In feature area
Gateway Motorway Upgrade	2003/1297	Not Controlled Action	Completed	In buffer area only
Hale Street Bridge Link	2005/2297	Not Controlled Action	Completed	In feature area
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
Northern Link Parallel Road Tunnels Project	2007/3824	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Pedestrian and Cycle Bridge, Brisbane River	2007/3553	Not Controlled Action	Completed	In buffer area only
Re-development of former CSIRO Laboratories into Residential lots & dwellings	2011/6119	Not Controlled Action	Completed	In buffer area only
Sale of ABC Orchestra and Music Centre	2010/5379	Not Controlled Action	Completed	In buffer area only
The North-South Bypass Tunnel (NSBT)	2004/1741	Not Controlled Action	Completed	In feature area
TradeCoast to Belmont Transmission Line	2003/1164	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Construction & Operation 275/330kV Transmission Line	2006/2820	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Cross River Rail	2010/5427	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Demolition of four buildings	2011/6039	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Sale of ABC studios and heritage building known as Middenbury, 600 Coronation D	2009/5004	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Works and additions to Brisbane General Post Office	2011/6019	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Mt Coot-tha Zipline, Brisbane, Qld	2018/8331	Referral Decision	Completed	In feature area

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

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

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ATTACHMENT 4



Queensland Government

WildNet species list

Search Criteria: Species List for a Specified Point
Species: All
Type: All
Queensland status: All
Records: Confirmed
Date: Since 1980
Latitude: -27.4771
Longitude: 152.9758
Distance: 1
Email: Mitch@28south.com.au
Date submitted: Wednesday 20 Jul 2022 11:58:14
Date extracted: Wednesday 20 Jul 2022 12:00:03

The number of records retrieved = 308

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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	amphibians	Bufo	<i>Rhinella marina</i>	cane toad	Y			1
animals	amphibians	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog		C		6
animals	amphibians	Hylidae	<i>Litoria peronii</i>	emerald spotted treefrog		C		2
animals	amphibians	Limnodynastidae	<i>Adelotus brevis</i>	tusked frog		V		12
animals	amphibians	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog		C		12
animals	birds	Accipitridae	<i>Accipiter novaehollandiae</i>	grey goshawk		C		1
animals	birds	Accipitridae	<i>Lophoictinia isura</i>	square-tailed kite		C		1
animals	birds	Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler		C		1
animals	birds	Anatidae	<i>Anas superciliosa</i>	Pacific black duck		C		6
animals	birds	Anatidae	<i>Aythya australis</i>	hardhead		C		4
animals	birds	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck		C		3
animals	birds	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret		C		1
animals	birds	Artamidae	<i>Cracticus nigrogularis</i>	pied butcherbird		C		1
animals	birds	Artamidae	<i>Gymnorhina tibicen</i>	Australian magpie		C		3
animals	birds	Artamidae	<i>Strepera graculina</i>	pied currawong		C		3
animals	birds	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo		C		2
animals	birds	Cacatuidae	<i>Eolophus roseicapilla</i>	galah		C		1
animals	birds	Campephagidae	<i>Edolisoma tenuirostre</i>	common cicadabird		C		1
animals	birds	Charadriidae	<i>Vanellus miles</i>	masked lapwing		C		1
animals	birds	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)		C		2
animals	birds	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon		C		1
animals	birds	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	Y			1
animals	birds	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird		C		1
animals	birds	Corvidae	<i>Corvus orru</i>	Torresian crow		C		5
animals	birds	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal		C		1/1
animals	birds	Eurostopodidae	<i>Eurostopodus mystacalis</i>	white-throated nightjar		C		1
animals	birds	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow		C		1
animals	birds	Megapodiidae	<i>Alectura lathami</i>	Australian brush-turkey		C		1
animals	birds	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater		C		2
animals	birds	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner		C		5
animals	birds	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark		C		4
animals	birds	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird		C		2
animals	birds	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote		C		1
animals	birds	Phaethontidae	<i>Phaethon rubricauda</i>	red-tailed tropicbird		V		1/1
animals	birds	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant		C		3
animals	birds	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant		C		2
animals	birds	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth		C		1
animals	birds	Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian grebe		C		5
animals	birds	Psittacidae	<i>Alisterus scapularis</i>	Australian king-parrot		C		1
animals	birds	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet		C		1
animals	birds	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet		C		1
animals	birds	Psittacidae	<i>Trichoglossus moluccanus</i>	rainbow lorikeet		C		3
animals	birds	Rallidae	<i>Fulica atra</i>	Eurasian coot		C		3
animals	birds	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen		C		6
animals	birds	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail		C		4
animals	birds	Strigidae	<i>Ninox boobook</i>	southern boobook		C		1

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animals	birds	Strigidae	<i>Ninox strenua</i>	powerful owl		V		6
animals	birds	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill		C		2
animals	birds	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis		C		6
animals	birds	Timaliidae	<i>Zosterops lateralis</i>	silveryeye		C		1
animals	insects	Coenagrionidae	<i>Ischnura heterosticta heterosticta</i>	common bluetail				1
animals	insects	Corduliidae	<i>Hemicordulia australiae</i>	Australian emerald				3
animals	insects	Diphlebiidae	<i>Diphlebia coerulescens</i>	sapphire rockmaster				1
animals	insects	Gomphidae	<i>Austrogomphus cornutus</i>	unicorn hunter				1
animals	insects	Hesperiidae	<i>Cephrenes trichopepla</i>	yellow palm-dart				1
animals	insects	Hesperiidae	<i>Hasora khoda haslia</i>	narrow-banded awl				1
animals	insects	Libellulidae	<i>Crocothemis nigrifrons</i>	black-headed skimmer				3
animals	insects	Libellulidae	<i>Diplacodes bipunctata</i>	wandering percher				1
animals	insects	Libellulidae	<i>Diplacodes haematodes</i>	scarlet percher				4
animals	insects	Libellulidae	<i>Diplacodes melanopsis</i>	black-faced percher				1
animals	insects	Libellulidae	<i>Hydrobasileus brevistylus</i>	water prince				2
animals	insects	Libellulidae	<i>Orthetrum caledonicum</i>	blue skimmer				5
animals	insects	Libellulidae	<i>Orthetrum villosovittatum</i>	fiery skimmer				1
animals	insects	Libellulidae	<i>Rhyothemis phyllis chloe</i>	yellow-striped flutterer				2
animals	insects	Libellulidae	<i>Tramea loewii</i>	common glider				1
animals	insects	Libellulidae	<i>Zygomma elgneri</i>	short-tailed duskdarter				1
animals	insects	Lindeniidae	<i>Ictinogomphus australis</i>	Australian tiger				2
animals	insects	Lycaenidae	<i>Leptotes plinius pseudocassius</i>	plumbago blue				1
animals	insects	Lycaenidae	<i>Nacaduba kurava parma</i>	white-banded line-blue				1
animals	insects	Megapodagrionidae	<i>Austroargiolestes icteromelas</i>	common flatwing				1
animals	insects	Megapodagrionidae	<i>Griseargiolestes albescens</i>	coastal flatwing				3
animals	insects	Nymphalidae	<i>Charaxes sempronius sempronius</i>	tailed emperor				1
animals	insects	Nymphalidae	<i>Cupha prosope</i>					1
animals	insects	Nymphalidae	<i>Danaus plexippus</i>	monarch	Y			1
animals	insects	Nymphalidae	<i>Euploea corinna</i>	common crow				3
animals	insects	Nymphalidae	<i>Hypolimnas bolina nerina</i>	varied eggfly				1
animals	insects	Nymphalidae	<i>Junonia villida villida</i>	meadow argus				2
animals	insects	Nymphalidae	<i>Melanitis leda bankia</i>	evening brown				2
animals	insects	Nymphalidae	<i>Phaedyra shepherdii shepherdii</i>	white-banded plane (southern subspecies)				2
animals	insects	Nymphalidae	<i>Tirumala hamata hamata</i>	blue tiger				1
animals	insects	Nymphalidae	<i>Vanessa itea</i>	yellow admiral				1
animals	insects	Papilionidae	<i>Graphium choredon</i>	blue triangle				3
animals	insects	Papilionidae	<i>Papilio aegaeus</i>					2
animals	insects	Papilionidae	<i>Papilio aegaeus aegaeus</i>	orchard swallowtail (Australian subspecies)				1
animals	insects	Pieridae	<i>Catopsilia pomona</i>	lemon migrant				1
animals	insects	Pieridae	<i>Cepora perimale</i>					1
animals	insects	Pieridae	<i>Pieris rapae</i>	cabbage white	Y			1
animals	insects	Synthemistidae	<i>Choristhemis flavoterminalata</i>	yellow-tipped tigertail				1
animals	malacostracans	Parastacidae	<i>Cherax depressus</i>					1
animals	mammals	Molossidae	<i>Austronomus australis</i>	white-striped freetail bat			C	3

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animals	mammals	Muridae	<i>Hydromys chrysogaster</i>	water rat		C		1
animals	mammals	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum		C		1
animals	mammals	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala		E	E	2
animals	ray-finned fishes	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel				2
animals	ray-finned fishes	Cyprinidae	<i>Carassius auratus</i>	goldfish	Y			2
animals	ray-finned fishes	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	Y			1
animals	ray-finned fishes	Poeciliidae	<i>Xiphophorus hellerii</i>	swordtail	Y			1
animals	reptiles	Agamidae	<i>Intellagama lesueurii</i>	eastern water dragon		C		10
animals	reptiles	Boidae	<i>Morelia spilota</i>	carpet python		C		2
animals	reptiles	Chelidae	<i>Emydura macquarii macquarii</i>	Murray turtle		C		3
animals	reptiles	Scincidae	<i>Eulamprus quoyii</i>	eastern water skink		C		2
animals	uncertain	Indeterminate	<i>Indeterminate</i>	Unknown or Code Pending				6
fungi	Agaricomycetes	Agaricaceae	<i>Agaricus</i>					16/16
fungi	Agaricomycetes	Agaricaceae	<i>Agaricus bisporus</i>			C		1/1
fungi	Agaricomycetes	Agaricaceae	<i>Agaricus xanthodermus</i>	yellow staining mushroom		C		1/1
fungi	Agaricomycetes	Agaricaceae	<i>Chlorophyllum nothorachodes</i>			C		5/5
fungi	Agaricomycetes	Agaricaceae	<i>Coprinus</i>					5/5
fungi	Agaricomycetes	Agaricaceae	<i>Cyathus</i>					1/1
fungi	Agaricomycetes	Agaricaceae	<i>Cyathus olla</i>			C		2/2
fungi	Agaricomycetes	Agaricaceae	<i>Lepiota</i>					1/1
fungi	Agaricomycetes	Agaricaceae	<i>Leucocoprinus cepistipes</i>			C		1/1
fungi	Agaricomycetes	Agaricaceae	<i>Lycoperdon</i>					1/1
fungi	Agaricomycetes	Amanitaceae	<i>Amanita</i>			C		1/1
fungi	Agaricomycetes	Amanitaceae	<i>Amanita egreginus</i>			C		1/1
fungi	Agaricomycetes	Amanitaceae	<i>Amanita nauseosa</i>			C		2/2
fungi	Agaricomycetes	Amanitaceae	<i>Limacella</i>					1/1
fungi	Agaricomycetes	Bolbitiaceae	<i>Bolbitius</i>					1/1
fungi	Agaricomycetes	Bolbitiaceae	<i>Conocybe</i>					2/2
fungi	Agaricomycetes	Boletaceae	<i>Boletus</i>					1/1
fungi	Agaricomycetes	Boletaceae	<i>Tylopilus</i>					1/1
fungi	Agaricomycetes	Cortinariaceae	<i>Gymnopilus junonius</i>			C		1/1
fungi	Agaricomycetes	Entolomataceae	<i>Rhodocybe</i>					1/1
fungi	Agaricomycetes	Ganodermataceae	<i>Ganoderma australe</i>			C		1/1
fungi	Agaricomycetes	Geastraceae	<i>Geastrum</i>			C		1/1
fungi	Agaricomycetes	Geastraceae	<i>Geastrum coronatum</i>			C		1/1
fungi	Agaricomycetes	Geastraceae	<i>Geastrum saccatum</i>			C		2/2
fungi	Agaricomycetes	Hydnangiaceae	<i>Laccaria</i>					2/2
fungi	Agaricomycetes	Hymenochaetaceae	<i>Phellinus</i>					1/1
fungi	Agaricomycetes	Marasmiaceae	<i>Marasmius</i>					3/3
fungi	Agaricomycetes	Meruliaceae	<i>Bjerkandera adusta</i>			C		1/1
fungi	Agaricomycetes	Mycenaceae	<i>Mycena</i>					2/2
fungi	Agaricomycetes	Omphalotaceae	<i>Marasmiellus</i>					2/2
fungi	Agaricomycetes	Panaeolaceae	<i>Panaeolus</i>					2/2
fungi	Agaricomycetes	Phallaceae	<i>Aseroe rubra</i>			C		2/2
fungi	Agaricomycetes	Phallaceae	<i>Colus pusillus</i>			C		1/1
fungi	Agaricomycetes	Phallaceae	<i>Lysurus</i>					1/1

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fungi	Agaricomycetes	Phallaceae	<i>Lysurus mokusin</i>			C		1/1
fungi	Agaricomycetes	Phallaceae	<i>Phallus multicolor</i>			C		2/2
fungi	Agaricomycetes	Phallaceae	<i>Phallus rubicundus</i>			C		3/3
fungi	Agaricomycetes	Physalacriaceae	<i>Armillaria</i>					1/1
fungi	Agaricomycetes	Pleurotaceae	<i>Pleurotus</i>					1/1
fungi	Agaricomycetes	Pluteaceae	<i>Pluteus</i>					2/2
fungi	Agaricomycetes	Pluteaceae	<i>Volvariella cycnopotamia</i>			C		1/1
fungi	Agaricomycetes	Polyporaceae	<i>Laetiporus portentosus</i>			C		1/1
fungi	Agaricomycetes	Polyporaceae	<i>Polyporus</i>					1/1
fungi	Agaricomycetes	Polyporaceae	<i>Polyporus arcularius</i>			C		1/1
fungi	Agaricomycetes	Psathyrellaceae	<i>Coprinellus disseminatus</i>			C		1/1
fungi	Agaricomycetes	Psathyrellaceae	<i>Psathyrella</i>					2/2
fungi	Agaricomycetes	Russulaceae	<i>Russula</i>			C		1/1
fungi	Agaricomycetes	Steccherinaceae	<i>Steccherinum</i>					1/1
fungi	Agaricomycetes	Strophariaceae	<i>Agrocybe</i>					3/3
fungi	Agaricomycetes	Strophariaceae	<i>Leratiomyces ceres</i>			C		3/3
fungi	Agaricomycetes	Strophariaceae	<i>Stropharia rugosoannulata</i>			C		2/2
fungi	Agaricomycetes	Suillaceae	<i>Suillus</i>					1/1
fungi	Agaricomycetes	Tricholomataceae	<i>Clitocybe</i>					1/1
fungi	Agaricomycetes	Tricholomataceae	<i>Collybia</i>					2/2
fungi	Agaricomycetes	Tricholomataceae	<i>Gymnopus</i>					4/4
fungi	Agaricomycetes	Tricholomataceae	<i>Gymnopus luxurians</i>			C		1/1
fungi	Agaricomycetes	Tricholomataceae	<i>Melanoleuca</i>					1/1
fungi	Agaricomycetes	Tricholomataceae	<i>Resupinatus applicatus</i>			C		1/1
fungi	Agaricomycetes	Tricholomataceae	<i>Tricholoma</i>					3/3
fungi	arthoniomycetes	Opegraphaceae	<i>Opegrapha varia</i>			C		1/1
fungi	dothideomycetes	Trypetheliaceae	<i>Trypethelium</i>					1/1
fungi	lecanoromycetes	Caliciaceae	<i>Calicium chlorosporum</i>			C		1/1
fungi	lecanoromycetes	Caliciaceae	<i>Pyxine cocoes</i>			C		1/1
fungi	lecanoromycetes	Graphidaceae	<i>Graphis</i>					1/1
fungi	lecanoromycetes	Graphidaceae	<i>Sarcographa oculata</i>			C		2/2
fungi	lecanoromycetes	Lecanoraceae	<i>Lecanora austrotropica</i>			C		1/1
fungi	lecanoromycetes	Lecanoraceae	<i>Lecanora caesiorubella</i>			C		1/1
fungi	lecanoromycetes	Lecanoraceae	<i>Lecanora impressa</i>			C		1/1
fungi	lecanoromycetes	Lecanoraceae	<i>Lecanora oreinoides</i>			C		1/1
fungi	lecanoromycetes	Parmeliaceae	<i>Bulbothrix queenslandica</i>			C		1/1
fungi	lecanoromycetes	Parmeliaceae	<i>Parmotrema reticulatum</i>			C		2/2
fungi	lecanoromycetes	Parmeliaceae	<i>Parmotrema tinctorum</i>			C		1/1
fungi	lecanoromycetes	Parmeliaceae	<i>Punctelia borreri</i>			C		1/1
fungi	lecanoromycetes	Pertusariaceae	<i>Pertusaria xanthoplaca</i>			C		1/1
fungi	lecanoromycetes	Physciaceae	<i>Heterodermia japonica</i>			C		1/1
fungi	lecanoromycetes	Physciaceae	<i>Heterodermia speciosa</i>			C		1/1
fungi	lecanoromycetes	Physciaceae	<i>Hyperphyscia pandani</i>			C		1/1
fungi	lecanoromycetes	Physciaceae	<i>Rinodina confragosula</i>			C		1/1
plants	land plants	Acanthaceae	<i>Brillantaisia lamium</i>		Y			3/3
plants	land plants	Acanthaceae	<i>Dyschoriste depressa</i>		Y			2/2

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plants	land plants	Acanthaceae	<i>Eranthemum pulchellum</i>		Y			1/1
plants	land plants	Acanthaceae	<i>Hypoestes phyllostachya</i>		Y			1/1
plants	land plants	Acanthaceae	<i>Justicia betonica</i>		Y			2/2
plants	land plants	Acanthaceae	<i>Ruellia squarrosa</i>		Y			1/1
plants	land plants	Acanthaceae	<i>Stephanophysum longifolium</i>		Y			1/1
plants	land plants	Acanthaceae	<i>Thunbergia alata</i>	black-eyed Susan	Y			2/2
plants	land plants	Agavaceae	<i>Agave americana</i> var. <i>expansa</i>		Y			1/1
plants	land plants	Amaranthaceae	<i>Amaranthus blitum</i>		Y			1/1
plants	land plants	Anacardiaceae	<i>Schinus terebinthifolius</i>		Y			1/1
plants	land plants	Aphanopetalaceae	<i>Aphanopetalum resinosum</i>	gumvine		C		1/1
plants	land plants	Apiaceae	<i>Cyclospermum leptophyllum</i>		Y			1/1
plants	land plants	Apocynaceae	<i>Rauvolfia tetraphylla</i>		Y			1/1
plants	land plants	Araceae	<i>Colocasia esculenta</i>	taro	Y			1/1
plants	land plants	Araliaceae	<i>Heptapleurum actinophyllum</i>			C		1/1
plants	land plants	Araliaceae	<i>Tetrapanax papyrifer</i>		Y			1/1
plants	land plants	Aristolochiaceae	<i>Aristolochia meridionalis</i> subsp. <i>meridionalis</i>			C		1/1
plants	land plants	Asteraceae	<i>Ageratina riparia</i>	mistflower	Y			2/2
plants	land plants	Asteraceae	<i>Ageratum conyzoides</i>	billygoat weed	Y			1/1
plants	land plants	Asteraceae	<i>Ageratum houstonianum</i>	blue billygoat weed	Y			2/2
plants	land plants	Asteraceae	<i>Cyanthillium cinereum</i>			C		1/1
plants	land plants	Asteraceae	<i>Hypochaeris albiflora</i>		Y			1/1
plants	land plants	Asteraceae	<i>Olearia nernstii</i>	Ipswich daisy		C		1/1
plants	land plants	Asteraceae	<i>Parthenium hysterophorus</i>	parthenium weed	Y			1/1
plants	land plants	Asteraceae	<i>Porophyllum ruderale</i> subsp. <i>macrocephalum</i>		Y			3/3
plants	land plants	Asteraceae	<i>Tithonia diversifolia</i>	Japanese sunflower	Y			1/1
plants	land plants	Asteraceae	<i>Youngia japonica</i>			C		1/1
plants	land plants	Balsaminaceae	<i>Impatiens walleriana</i>	balsam	Y			2/2
plants	land plants	Basellaceae	<i>Anredera cordifolia</i>	Madeira vine	Y			1/1
plants	land plants	Bignoniaceae	<i>Tecoma stans</i> var. <i>stans</i>		Y			1/1
plants	land plants	Brassicaceae	<i>Cardamine flexuosa</i>	wood bittercress	Y			1/1
plants	land plants	Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppercress	Y			1/1
plants	land plants	Brassicaceae	<i>Lobularia maritima</i>	sweet Alyssum	Y			1/1
plants	land plants	Caryophyllaceae	<i>Drymaria cordata</i> subsp. <i>cordata</i>		Y			1/1
plants	land plants	Celastraceae	<i>Celastraceae</i>					1/1
plants	land plants	Commelinaceae	<i>Commelina benghalensis</i>		Y			1/1
plants	land plants	Commelinaceae	<i>Tradescantia fluminensis</i>		Y			1/1
plants	land plants	Commelinaceae	<i>Tradescantia zebrina</i>		Y			2/2
plants	land plants	Cyperaceae	<i>Cyperus involucreatus</i>		Y			3/3
plants	land plants	Cyperaceae	<i>Scleria tricuspidata</i>			C		1/1
plants	land plants	Dioscoreaceae	<i>Dioscorea transversa</i>	native yam		C		2/2
plants	land plants	Dracaenaceae	<i>Sansevieria trifasciata</i> var. <i>trifasciata</i>		Y			1/1
plants	land plants	Dryopteridaceae	<i>Bolbitis</i>					1/1
plants	land plants	Ebenaceae	<i>Diospyros maritima</i>			C		1/1
plants	land plants	Elaeocarpaceae	<i>Elaeocarpus obovatus</i> subsp. <i>obovatus</i>			C		1/1
plants	land plants	Euphorbiaceae	<i>Acalypha australis</i>		Y			2/2
plants	land plants	Euphorbiaceae	<i>Euphorbia cyathophora</i>	dwarf poinsettia	Y			1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	land plants	Euphorbiaceae	<i>Euphorbia dallachyana</i>			C		1/1
plants	land plants	Euphorbiaceae	<i>Euphorbia heterophylla</i>		Y			2/2
plants	land plants	Euphorbiaceae	<i>Euphorbia hirta</i>		Y			1/1
plants	land plants	Euphorbiaceae	<i>Euphorbia hyssopifolia</i>		Y			2/2
plants	land plants	Euphorbiaceae	<i>Euphorbia maculata</i>		Y			3/3
plants	land plants	Euphorbiaceae	<i>Euphorbia ophthalmica</i>		Y			3/3
plants	land plants	Euphorbiaceae	<i>Euphorbia peplus</i>	petty spurge	Y			1/1
plants	land plants	Euphorbiaceae	<i>Euphorbia prostrata</i>		Y			2/2
plants	land plants	Euphorbiaceae	<i>Manihot grahamii</i>		Y			1/1
plants	land plants	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	Y			1/1
plants	land plants	Fabroniaceae	<i>Fabronia australis</i>				C	1/1
plants	land plants	Frullaniaceae	<i>Frullania ericoides</i>				C	1/1
plants	land plants	Frullaniaceae	<i>Frullania monocera</i>				C	1/1
plants	land plants	Lamiaceae	<i>Leonotis nepetifolia</i>		Y			1/1
plants	land plants	Lauraceae	<i>Cinnamomum camphora</i>	camphor laurel	Y			1/1
plants	land plants	Laxmanniaceae	<i>Eustrephus latifolius</i>	wombat berry			C	1/1
plants	land plants	Leguminosae	<i>Abrus precatorius subsp. africanus</i>		Y			2/2
plants	land plants	Leguminosae	<i>Ctenodon falcatus</i>		Y			1/1
plants	land plants	Leguminosae	<i>Daviesia villifera</i>	prickly daviesia			C	1/1
plants	land plants	Leguminosae	<i>Desmodium uncinatum</i>		Y			1/1
plants	land plants	Leguminosae	<i>Galactia tenuiflora var. lucida</i>				C	1/1
plants	land plants	Leguminosae	<i>Hovea acutifolia</i>				C	1/1
plants	land plants	Leguminosae	<i>Indigofera spicata</i>	creeping indigo	Y			1/1
plants	land plants	Leguminosae	<i>Leucaena leucocephala subsp. leucocephala</i>		Y			1/1
plants	land plants	Leguminosae	<i>Macroptilium atropurpureum</i>	siratro	Y			2/2
plants	land plants	Leguminosae	<i>Macroptilium lathyroides</i>		Y			1/1
plants	land plants	Leguminosae	<i>Millettia pinnata</i>				C	1/1
plants	land plants	Leguminosae	<i>Mimosa pudica var. hispida</i>		Y			1/1
plants	land plants	Leguminosae	<i>Pultenaea cuneata</i>				C	1/1
plants	land plants	Leguminosae	<i>Tephrosia filipes</i>				C	1/1
plants	land plants	Leguminosae	<i>Tephrosia glomeruliflora</i>	pink tephrosia	Y			2/2
plants	land plants	Lejeuneaceae	<i>Lejeunea flava subsp. orientalis</i>				C	1/1
plants	land plants	Lophocoleaceae	<i>Heteroscyphus argutus</i>				C	1/1
plants	land plants	Malpighiaceae	<i>Hiptage benghalensis</i>		Y			3/3
plants	land plants	Malvaceae	<i>Hibiscus mutabilis</i>		Y			1/1
plants	land plants	Menispermaceae	<i>Echinostephia aculeata</i>	prickly snake vine			C	1/1
plants	land plants	Moraceae	<i>Broussonetia papyrifera</i>		Y			2/2
plants	land plants	Myrtaceae	<i>Eucalyptus crebra</i>	narrow-leaved red ironbark			C	2/2
plants	land plants	Myrtaceae	<i>Eucalyptus helidonica</i>				C	1/1
plants	land plants	Myrtaceae	<i>Eucalyptus major</i>	mountain grey gum			C	1/1
plants	land plants	Myrtaceae	<i>Eucalyptus microcorys</i>				C	1/1
plants	land plants	Myrtaceae	<i>Eucalyptus tindaliae</i>	Queensland white stringybark			C	1/1
plants	land plants	Myrtaceae	<i>Rhodomyrtus psidioides</i>	native guava			CR CE	1/1
plants	land plants	Ochnaceae	<i>Ochna serrulata</i>	ochna	Y			3/3
plants	land plants	Oleaceae	<i>Olea paniculata</i>				C	1/1
plants	land plants	Onagraceae	<i>Ludwigia longifolia</i>		Y			4/4

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	land plants	Onagraceae	<i>Ludwigia octovalvis</i>	willow primrose		C		1/1
plants	land plants	Orchidaceae	<i>Corybas aconitiflorus</i>			SL		1
plants	land plants	Oxalidaceae	<i>Oxalis chnoodes</i>			C		1/1
plants	land plants	Oxalidaceae	<i>Oxalis debilis</i> var. <i>corymbosa</i>	pink shamrock	Y			1/1
plants	land plants	Passifloraceae	<i>Passiflora edulis</i>		Y			1/1
plants	land plants	Passifloraceae	<i>Passiflora foetida</i>		Y			1/1
plants	land plants	Phyllanthaceae	<i>Glochidion ferdinandi</i> var. <i>ferdinandi</i>			C		1/1
plants	land plants	Phytolaccaceae	<i>Phytolacca octandra</i>	inkweed	Y			1/1
plants	land plants	Pittosporaceae	<i>Pittosporum multiflorum</i>			C		1/1
plants	land plants	Plantaginaceae	<i>Veronica arvensis</i>	wandering speedwell	Y			1/1
plants	land plants	Plantaginaceae	<i>Veronica plebeia</i>	trailing speedwell			C	1/1
plants	land plants	Poaceae	<i>Bambusa vulgaris</i>		Y			1/1
plants	land plants	Poaceae	<i>Bromus catharticus</i>	prairie grass	Y			1/1
plants	land plants	Poaceae	<i>Echinopogon nutans</i> var. <i>nutans</i>				C	1/1
plants	land plants	Poaceae	<i>Entolasia whiteana</i>				C	1/1
plants	land plants	Poaceae	<i>Phyllostachys aurea</i>	fishpole bamboo	Y			1/1
plants	land plants	Poaceae	<i>Setaria palmifolia</i>	palm grass	Y			1/1
plants	land plants	Poaceae	<i>Urochloa decumbens</i>		Y			1/1
plants	land plants	Polygalaceae	<i>Polygala paniculata</i>		Y			1/1
plants	land plants	Pottiaceae	<i>Syntrichia laevipila</i>				C	1/1
plants	land plants	Ptychomitriaceae	<i>Ptychomitrium australe</i>				C	1/1
plants	land plants	Rosaceae	<i>Prunus persica</i> var. <i>persica</i>		Y			2/2
plants	land plants	Rosaceae	<i>Raphiolepis indica</i>	Indian hawthorn	Y			1/1
plants	land plants	Rubiaceae	<i>Spermacoce remota</i>		Y			1/1
plants	land plants	Sapindaceae	<i>Alectryon tomentosus</i>				C	1/1
plants	land plants	Sapindaceae	<i>Koelreuteria elegans</i> subsp. <i>formosana</i>		Y			1/1
plants	land plants	Scrophulariaceae	<i>Buddleja stachyoides</i>		Y			1/1
plants	land plants	Solanaceae	<i>Solanum abutiloides</i>		Y			9/9
plants	land plants	Solanaceae	<i>Solanum americanum</i>		Y			2/2
plants	land plants	Verbenaceae	<i>Duranta erecta</i>	duranta	Y			2/2
plants	land plants	Verbenaceae	<i>Lantana montevidensis</i>	creeping lantana	Y			1/1
plants	land plants	Zingiberaceae	<i>Alpinia zerumbet</i>		Y			1/1
protozoans	slime molds	Reticulariaceae	<i>Lycogala</i>				C	1/1
protozoans	slime molds	Stemonitidaceae	<i>Stemonitis splendens</i>				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.

ATTACHMENT 5



Vegetation management report

For Lot: 1 Plan: SP266267

30/06/2022

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Recent changes

Updated mapping

Updated vegetation mapping was released on 8 September 2021 and includes the most recent Queensland Herbarium scientific updates to the Regulated Vegetation Management Map, regional ecosystems, wetland, high-value regrowth and essential habitat mapping.

The Department of Environment and Science have also updated their protected plant and koala protection mapping to align with the Queensland Herbarium scientific updates.

Overview

Based on the lot on plan details you have supplied, this report provides the following detailed information:

Property details - information about the specified Lot on Plan, lot size, local government area, bioregion(s), subregion(s) and catchment(s);

Vegetation management framework - an explanation of the application of the framework and contact details for the Department of Resources who administer the framework;

Vegetation management framework details for the specified Lot on Plan including:

- the vegetation management categories on the property;
- the vegetation management regional ecosystems on the property;
- vegetation management watercourses or drainage features on the property;
- vegetation management wetlands on the property;
- vegetation management essential habitat on the property;
- whether any area management plans are associated with the property;
- whether the property is coastal or non-coastal; and
- whether the property is mapped as Agricultural Land Class A or B;

Protected plant framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework, including:

- high risk areas on the protected plant flora survey trigger map for the property;

Koala protection framework - an explanation of the application of the framework and contact details for the Department of Environment and Science who administer the framework; and

Koala protection framework details for the specified Lot on Plan including:

- the koala district the property is located in;
- koala priority areas on the property;
- core and locally refined koala habitat areas on the property;
- whether the lot is located in an identified koala broad-hectare area; and
- koala habitat regional ecosystems on the property for core koala habitat areas.

This information will assist you to determine your options for managing vegetation under:

- the vegetation management framework, which may include:

- exempt clearing work;
- accepted development vegetation clearing code;
- an area management plan;
- a development approval;

- the protected plant framework, which may include:

- the need to undertake a flora survey;
- exempt clearing;
- a protected plant clearing permit;

- the koala protection framework, which may include:

- exempted development;
- a development approval;
- the need to undertake clearing sequentially and in the presence of a koala spotter.

Other laws

The clearing of native vegetation is regulated by both Queensland and Australian legislation, and some local governments also regulate native vegetation clearing. You may need to obtain an approval or permit under another Act, such as the Commonwealth Government's *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Section 8 of this guide provides contact details of other agencies you should confirm requirements with, before commencing vegetation clearing.

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1. Property details

1.1 Tenure and title area

All of the lot, plan, tenure and title area information associated with property Lot: 1 Plan: SP266267, are listed in Table 1.

Table 1: Lot, plan, tenure and title area information for the property

Lot	Plan	Tenure	Property title area (sq metres)
1	SP266267	Freehold	365,300
108	SP266264	Lands Lease	0.0
106	SP266267	Lands Lease	0.0
104	SP266261	Lands Lease	0.0
A	SP259809	Easement	575
109	SP266264	Lands Lease	0.0
105	SP266267	Lands Lease	0.0

The tenure of the land may affect whether clearing is considered exempt clearing work or may be carried out under an accepted development vegetation clearing code.

1.2 Property location

Table 2 provides a summary of the locations for property Lot: 1 Plan: SP266267, in relation to natural and administrative boundaries.

Table 2: Property location details

Local Government(s)
Brisbane City

Bioregion(s)	Subregion(s)
Southeast Queensland	Burringbar - Conondale Ranges

Catchment(s)
Brisbane

2. Vegetation management framework (administered by the Department of Resources)

The *Vegetation Management Act 1999* (VMA), the *Vegetation Management Regulation 2012*, the *Planning Act 2016* and the *Planning Regulation 2017*, in conjunction with associated policies and codes, form the Vegetation Management Framework.

The VMA does not apply to all land tenures or vegetation types. State forests, national parks, forest reserves and some tenures under the *Forestry Act 1959* and *Nature Conservation Act 1992* are not regulated by the VMA. Managing or clearing vegetation on these tenures may require approvals under these laws.

The following native vegetation is not regulated under the VMA but may require permit(s) under other laws:

- grass or non-woody herbage;
- a plant within a grassland regional ecosystem prescribed under Schedule 5 of the *Vegetation Management Regulation 2012*; and
- a mangrove.

2.1 Exempt clearing work

Exempt clearing work is an activity for which you do not need to notify the Department of Resources or obtain an approval under the vegetation management framework. Exempt clearing work was previously known as exemptions.

In areas that are mapped as Category X (white in colour) on the regulated vegetation management map (see section 4.1), and where the land tenure is freehold, indigenous land and leasehold land for agriculture and grazing purposes, the clearing of vegetation is considered exempt clearing work and does not require notification or development approval under the vegetation management framework. For all other land tenures, contact the Department of Resources before commencing clearing to ensure that the proposed activity is exempt clearing work.

A range of routine property management activities are considered exempt clearing work. A list of exempt clearing work is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/exemptions>.

Exempt clearing work may be affected if the proposed clearing area is subject to development approval conditions, a covenant, an environmental offset, an exchange area, a restoration notice, or an area mapped as Category A. Exempt clearing work may require approval under other Commonwealth, State or Local Government laws, or local government planning schemes. Contact the Department of Resources prior to clearing in any of these areas.

2.2 Accepted development vegetation clearing codes

Some clearing activities can be undertaken under an accepted development vegetation clearing code. The codes can be downloaded at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/codes>

If you intend to clear vegetation under an accepted development vegetation clearing code, you must notify the Department of Resources before commencing. The information in this report will assist you to complete the online notification form.

You can complete the online form at

<https://apps.dnrm.qld.gov.au/vegetation/>

2.3 Area management plans

Area Management Plans (AMP) provide an alternative approval system for vegetation clearing under the vegetation management framework. They list the purposes and clearing conditions that have been approved for the areas covered by the plan. It is not necessary to use an AMP, even when an AMP applies to your property.

On 8 March 2020, AMPs ended for fodder harvesting, managing thickened vegetation and managing encroachment. New notifications cannot be made for these AMPs. You will need to consider options for fodder harvesting, managing thickened vegetation or encroachment under a relevant accepted development vegetation clearing code or apply for a development approval.

New notifications can be made for all other AMPs. These will continue to apply until their nominated end date.

If an Area Management Plan applies to your property for which you can make a new notification, it will be listed in Section 3.6 of this report. Before clearing under one of these AMPs, you must first notify the Department of Resources and then follow the conditions and requirements listed in the AMP.

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/area-management-plans>

2.4 Development approvals

If under the vegetation management framework your proposed clearing is not exempt clearing work, or is not permitted under an accepted development vegetation clearing code, or an AMP, you may be able to apply for a development approval.

Information on how to apply for a development approval is available at

<https://www.qld.gov.au/environment/land/management/vegetation/clearing-approvals/development>

2.5. Contact information for the Department of Resources

For further information on the vegetation management framework:

Phone 135VEG (135 834)

Email vegetation@resources.qld.gov.au

Visit <https://www.resources.qld.gov.au/?contact=vegetation> to submit an online enquiry.

3. Vegetation management framework for Lot: 1 Plan: SP266267

3.1 Vegetation categories

The vegetation categories on your property are shown on the regulated vegetation management map in section 4.1 of this report. A summary of vegetation categories on the subject lot are listed in Table 3. Descriptions for these categories are shown in Table 4.

Table 3: Vegetation categories for subject property. Total area: 36.54ha

Vegetation category	Area (ha)
Category B	3.7
Category C	2.2
Category Water	< 0.1
Category X	30.6

Table 4: Description of vegetation categories

Category	Colour on Map	Description	Requirements / options under the vegetation management framework
A	red	Compliance areas, environmental offset areas and voluntary declaration areas	Special conditions apply to Category A areas. Before clearing, contact the Department of Resources to confirm any requirements in a Category A area.
B	dark blue	Remnant vegetation areas	Exempt clearing work, or notification and compliance with accepted development vegetation clearing codes, area management plans or development approval.
C	light blue	High-value regrowth areas	Exempt clearing work, or notification and compliance with managing Category C regrowth vegetation accepted development vegetation clearing code.
R	yellow	Regrowth within 50m of a watercourse or drainage feature in the Great Barrier Reef catchment areas	Exempt clearing work, or notification and compliance with managing Category R regrowth accepted development vegetation clearing code or area management plans.
X	white	Clearing on freehold land, indigenous land and leasehold land for agriculture and grazing purposes is considered exempt clearing work under the vegetation management framework. Contact the Department of Resources to clarify whether a development approval is required for other State land tenures.	No permit or notification required on freehold land, indigenous land and leasehold land for agriculture and grazing. A development approval may be required for some State land tenures.

Property Map of Assessable Vegetation (PMAV)

There is no Property Map of Assessable Vegetation (PMAV) present on this property.

3.2 Regional ecosystems

The endangered, of concern and least concern regional ecosystems on your property are shown on the vegetation management supporting map in section 4.2 and are listed in Table 5.

A description of regional ecosystems can be accessed online at

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

Table 5: Regional ecosystems present on subject property

Regional Ecosystem	VMA Status	Category	Area (Ha)	Short Description	Structure Category
12.11.25	Of concern	B	0.62	Corymbia henryi and/or Eucalyptus fibrosa subsp. fibrosa +/- E. crebra, E. carnea, E. tindaliae woodland on metamorphics +/- interbedded volcanics	Sparse
12.11.3	Least concern	B	0.51	Eucalyptus siderophloia, E. propinqua +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open forest on metamorphics +/- interbedded volcanics	Mid-dense
12.11.5	Least concern	B	1.79	Corymbia citriodora subsp. variegata woodland to open forest +/- Eucalyptus siderophloia/E. crebra, E. carnea, E. acmenoides, E. propinqua on metamorphics +/- interbedded volcanics	Mid-dense
12.11.5	Least concern	C	1.14	Corymbia citriodora subsp. variegata woodland to open forest +/- Eucalyptus siderophloia/E. crebra, E. carnea, E. acmenoides, E. propinqua on metamorphics +/- interbedded volcanics	Mid-dense
12.3.11	Of concern	B	0.78	Eucalyptus tereticornis +/- Eucalyptus siderophloia, Corymbia intermedia open forest on alluvial plains usually near coast	Mid-dense
12.3.11	Of concern	C	1.07	Eucalyptus tereticornis +/- Eucalyptus siderophloia, Corymbia intermedia open forest on alluvial plains usually near coast	Mid-dense
non-rem	None	X	30.62	None	None
water	None	Water	0.01	None	None

Please note:

1. All area and area derived figures included in this table 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.
2. If Table 5 contains a Category 'plant', please be aware that this refers to 'plantations' such as forestry, and these areas are considered non-remnant under the VMA.

The VMA status of the regional ecosystem (whether it is endangered, of concern or least concern) also determines if any of the following are applicable:

- exempt clearing work;
- accepted development vegetation clearing codes;
- performance outcomes in State Code 16 of the State Development Assessment Provisions (SDAP).

3.3 Watercourses

Vegetation management watercourses and drainage features for this property are shown on the vegetation management supporting map in section 4.2.

3.4 Wetlands

There are no vegetation management wetlands present on this property.

3.5 Essential habitat

Under the VMA, essential habitat for protected wildlife is native wildlife prescribed under the *Nature Conservation Act 1992* (NCA) as critically endangered, endangered, vulnerable or near-threatened wildlife.

Essential habitat for protected wildlife includes suitable habitat on the lot, or where a species has been known to occur up to 1.1 kilometres from a lot on which there is assessable vegetation. These important habitat areas are protected under the VMA.

Any essential habitat on this property will be shown as blue hatching on the vegetation supporting map in section 4.2.

If essential habitat is identified on the lot, information about the protected wildlife species is provided in Table 6 below. The numeric labels on the vegetation management supporting map can be cross referenced with Table 6 to outline the essential habitat factors for that particular species. There may be essential habitat for more than one species on each lot, and areas of Category A, Category B and Category C can be mapped as Essential Habitat.

Essential habitat is compiled from a combination of species habitat models and buffered species records. Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated. Essential habitat, for protected wildlife, means an area of vegetation shown on the Regulated Vegetation Management Map -

- 1) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database. Essential habitat factors are comprised of - regional ecosystem (mandatory for most species), vegetation community, altitude, soils, position in landscape; or
- 2) in which the protected wildlife, at any stage of its life cycle, is located.

If there is no essential habitat mapping shown on the vegetation management supporting map for this lot, and there is no table in the sections below, it confirms that there is no essential habitat on the lot.

Category A and/or Category B and/or Category C

Table 6: Essential habitat in Category A and/or Category B and/or Category C

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
860	Phascolarctos cinereus	koala	V	Open forests and woodlands containing Eucalyptus, Corymbia, Lophostemon or Melaleuca trees having a trunk of a diameter of more than 10cm at 1.3m above the ground. Tree species used for food and habitat varies across the state and can include: Corymbia citriodora, Corymbia henryi, Corymbia intermedia, Eucalyptus acmenoides, Eucalyptus bancroftii, Eucalyptus biturbinata, Eucalyptus blakelyi, Eucalyptus brownii, Eucalyptus camaldulensis, Eucalyptus carnea, Eucalyptus chloroclada, Eucalyptus coolabah, Eucalyptus crebra, Eucalyptus dealbata, Eucalyptus drepanophylla, Eucalyptus dunnii, Eucalyptus eugenioides, Eucalyptus exserta, Eucalyptus fibrosa, Eucalyptus grandis, Eucalyptus helidonica, Eucalyptus latisinensis, Eucalyptus longirostrata, Eucalyptus major, Eucalyptus melanophloia, Eucalyptus melliodora, Eucalyptus microcarpa, Eucalyptus microcorys, Eucalyptus microtheca, Eucalyptus moluccana, Eucalyptus montivaga, Eucalyptus orgadophila, Eucalyptus papuana, Eucalyptus pilularis, Eucalyptus platyphylla, Eucalyptus populnea, Eucalyptus portuensis, Eucalyptus propinqua, Eucalyptus racemosa, Eucalyptus resinifera, Eucalyptus robusta, Eucalyptus saligna, Eucalyptus seeana, Eucalyptus siderophloia, Eucalyptus sideroxylon, Eucalyptus tereticornis, Eucalyptus thozetiana, Eucalyptus tindaliae, Eucalyptus umbra, Lophostemon confertus, Melaleuca leucadendra, Melaleuca quinquenervia.	Sea level to 1000m.	None	Riparian areas, plains and hill/escarpment slopes.

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
706	Adelotus brevis	tusked frog	V	In cavities, under debris (logs, stones) in subtropical vine forest, tall open moist forest, heaths, Melaleuca swamp and pasturelands near puddles and streams.	Sea level to 1000m.	None	None
1107	Ninox strenua	powerful owl	V	Wet and dry tall open eucalypt forest (Eucalyptus pilularis, E. acmenoides, E. tereticornis, E. camaldulensis, E. crebra, E. melliodora, Corymbia citriodora & C. intermedia), including mountain forest gullies/gorges; forests aged 60+ years (large & old) on fertile soils with suitable hollows; roosting in dense foliage of closed forest (occasionally caves) and foraging in open forest and woodland including areas adjacent to urban/rural development. Nest in large hollows (45-75cm diameter, 50-180cm deep) 6-45m above ground, in large (>100cm dbh) old eucalypts on the side or at the head of heavily wooded gully.	Sea level to 1000m.	None	Gully.
1149	Lathamus discolor	swift parrot	E	Box-ironbark dry open eucalypt forest and woodland, including Eucalyptus sideroxylon, E. microcarpa and E. albens, E. melliodora, with profuse flowering; especially those on high fertility soils (generally large trees); in coastal areas visits E. robusta, E. tereticornis and Corymbia citriodora/maculata. Does not breed in Queensland.	Sea level to 800m.	None	None

Label	Regional Ecosystem (mandatory unless otherwise specified)
860	4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.8, 4.3.10, 4.3.11, 4.5.3, 4.5.5, 4.5.6, 4.5.8, 4.5.9, 4.7.1, 4.7.7, 4.7.8, 4.9.6, 4.9.10, 4.9.12, 4.9.17, 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.3.11, 6.3.12, 6.3.17, 6.3.18, 6.3.22, 6.3.24, 6.3.25, 6.4.1, 6.4.2, 6.4.3, 6.4.4, 6.5.1, 6.5.2, 6.5.3, 6.5.5, 6.5.6, 6.5.7, 6.5.8, 6.5.9, 6.5.10, 6.5.11, 6.5.13, 6.5.14, 6.5.15, 6.5.16, 6.5.17, 6.5.18, 6.5.19, 6.6.2, 6.7.1, 6.7.2, 6.7.5, 6.7.6, 6.7.7, 6.7.9, 6.7.11, 6.7.12, 6.7.13, 6.7.14, 6.7.17, 6.9.3, 7.2.3, 7.2.4, 7.2.7, 7.2.11, 7.3.7, 7.3.8, 7.3.9, 7.3.12, 7.3.13, 7.3.14, 7.3.16, 7.3.19, 7.3.20, 7.3.21, 7.3.25, 7.3.26, 7.3.39, 7.3.40, 7.3.42, 7.3.43, 7.3.44, 7.3.45, 7.3.47, 7.3.48, 7.3.50, 7.5.1, 7.5.2, 7.5.3, 7.5.4, 7.8.7, 7.8.8, 7.8.10, 7.8.15, 7.8.16, 7.8.17, 7.8.18, 7.8.19, 7.11.5, 7.11.6, 7.11.13, 7.11.14, 7.11.16, 7.11.18, 7.11.19, 7.11.20, 7.11.21, 7.11.31, 7.11.32, 7.11.33, 7.11.34, 7.11.35, 7.11.37, 7.11.41, 7.11.42, 7.11.43, 7.11.44, 7.11.45, 7.11.46, 7.11.47, 7.11.48, 7.11.49, 7.11.50, 7.11.51, 7.12.4, 7.12.5, 7.12.17, 7.12.21, 7.12.22, 7.12.23, 7.12.24, 7.12.25, 7.12.26, 7.12.27, 7.12.28, 7.12.29, 7.12.30, 7.12.33, 7.12.34, 7.12.35, 7.12.51, 7.12.52, 7.12.53, 7.12.54, 7.12.55, 7.12.56, 7.12.57, 7.12.58, 7.12.59, 7.12.60, 7.12.61, 7.12.62, 7.12.63, 7.12.65, 7.12.66, 7.12.69, 8.1.5, 8.2.3, 8.2.6, 8.2.7, 8.2.8, 8.2.11, 8.2.12, 8.2.13, 8.2.14, 8.3.1, 8.3.2, 8.3.3, 8.3.5, 8.3.6, 8.3.8, 8.3.10, 8.3.11, 8.3.13, 8.5.1, 8.5.2, 8.5.3, 8.5.5, 8.5.6, 8.5.7, 8.9.1, 8.10.1, 8.11.1, 8.11.3, 8.11.4, 8.11.5, 8.11.6, 8.11.8, 8.11.10, 8.11.12, 8.12.4, 8.12.5, 8.12.6, 8.12.7, 8.12.8, 8.12.9, 8.12.12, 8.12.14, 8.12.20, 8.12.22, 8.12.23, 8.12.25, 8.12.26, 8.12.27, 8.12.29, 8.12.31, 8.12.32, 9.3.1, 9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, 9.3.7, 9.3.8, 9.3.10, 9.3.11, 9.3.13, 9.3.14, 9.3.15, 9.3.16, 9.3.17, 9.3.19, 9.3.20, 9.3.21, 9.3.22, 9.3.27, 9.4.1, 9.4.2, 9.5.1, 9.5.3, 9.5.4, 9.5.5, 9.5.6, 9.5.7, 9.5.8, 9.5.9, 9.5.10, 9.5.11, 9.5.12, 9.5.15, 9.5.16, 9.5.17, 9.7.1, 9.7.2, 9.7.3, 9.7.4, 9.7.5, 9.7.6, 9.8.1, 9.8.2, 9.8.3, 9.8.4, 9.8.5, 9.8.9, 9.8.10, 9.8.11, 9.8.13, 9.10.1, 9.10.3, 9.10.4, 9.10.5, 9.10.7, 9.10.8, 9.11.1, 9.11.2, 9.11.3, 9.11.4, 9.11.5, 9.11.7, 9.11.10, 9.11.12, 9.11.13, 9.11.14, 9.11.15, 9.11.16, 9.11.17, 9.11.18, 9.11.19, 9.11.21, 9.11.22, 9.11.23, 9.11.24, 9.11.25, 9.11.26, 9.11.28, 9.11.29, 9.11.30, 9.11.31, 9.11.32, 9.12.1, 9.12.2, 9.12.3, 9.12.4, 9.12.5, 9.12.6, 9.12.7, 9.12.10, 9.12.11, 9.12.12, 9.12.13, 9.12.14, 9.12.15, 9.12.16, 9.12.17, 9.12.18, 9.12.19, 9.12.20, 9.12.21, 9.12.22, 9.12.23, 9.12.24, 9.12.25, 9.12.26, 9.12.27, 9.12.28, 9.12.29, 9.12.30, 9.12.31, 9.12.32, 9.12.33, 9.12.35, 9.12.36, 9.12.37, 9.12.38, 9.12.39, 9.12.44, 10.3.2, 10.3.3, 10.3.5, 10.3.6, 10.3.9, 10.3.10, 10.3.11, 10.3.12, 10.3.13, 10.3.14, 10.3.15, 10.3.17, 10.3.20, 10.3.27, 10.3.28, 10.4.3, 10.4.9, 10.5.1, 10.5.2, 10.5.4, 10.5.5, 10.5.7, 10.5.8, 10.5.9, 10.5.10, 10.5.11, 10.5.12, 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.7.5, 10.7.9, 10.7.10, 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Label	Regional Ecosystem (mandatory unless otherwise specified)
1107	8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7, 8.2.8, 8.2.11, 8.2.13, 8.2.14, 8.3.1, 8.3.3, 8.3.6, 8.3.8, 8.3.9, 8.3.10, 8.3.11, 8.5.1, 8.8.1, 8.10.1, 8.11.2, 8.11.3, 8.11.5, 8.12.1, 8.12.2, 8.12.3, 8.12.4, 8.12.5, 8.12.7, 8.12.8, 8.12.11, 8.12.12, 8.12.14, 8.12.16, 8.12.17, 8.12.18, 8.12.19, 8.12.26, 8.12.27, 8.12.28, 8.12.29, 8.12.30, 8.12.31, 8.12.32, 11.2.2, 11.2.3, 11.3.1, 11.3.11, 11.3.12, 11.3.25, 11.3.26, 11.3.40, 11.4.1, 11.4.3, 11.4.7, 11.4.9, 11.5.7, 11.5.16, 11.8.1, 11.8.13, 11.9.1, 11.9.4, 11.9.5, 11.9.6, 11.9.10, 11.9.13, 11.10.1, 11.10.2, 11.10.5, 11.10.8, 11.10.9, 11.10.13, 11.11.3, 11.11.5, 11.11.13, 11.11.14, 11.11.18, 11.12.4, 11.12.13, 11.12.19, 11.12.21, 12.2.1, 12.2.2, 12.2.3, 12.2.4, 12.2.5, 12.2.7, 12.2.8, 12.3.1, 12.3.2, 12.3.3, 12.3.4, 12.3.5, 12.3.7, 12.3.9, 12.3.10, 12.3.11, 12.3.15, 12.3.16, 12.3.17, 12.3.18, 12.3.19, 12.3.20, 12.3.21, 12.5.1, 12.5.3, 12.5.6, 12.5.7, 12.5.13, 12.8.1, 12.8.2, 12.8.3, 12.8.4, 12.8.5, 12.8.6, 12.8.7, 12.8.8, 12.8.9, 12.8.10, 12.8.11, 12.8.12, 12.8.13, 12.8.14, 12.8.16, 12.8.21, 12.8.22, 12.8.23, 12.8.24, 12.8.25, 12.8.26, 12.9-10.1, 12.9-10.2, 12.9-10.3, 12.9-10.4, 12.9-10.5, 12.9-10.6, 12.9-10.14, 12.9-10.16, 12.9-10.17, 12.9-10.18, 12.9-10.19, 12.9-10.20, 12.9-10.21, 12.9-10.23, 12.9-10.24, 12.9-10.25, 12.9-10.26, 12.9-10.29, 12.11.1, 12.11.2, 12.11.3, 12.11.4, 12.11.5, 12.11.6, 12.11.9, 12.11.10, 12.11.11, 12.11.12, 12.11.13, 12.11.16, 12.11.17, 12.11.18, 12.11.19, 12.11.23, 12.11.24, 12.11.25, 12.11.26, 12.11.27, 12.11.28, 12.12.1, 12.12.2, 12.12.3, 12.12.4, 12.12.5, 12.12.6, 12.12.11, 12.12.13, 12.12.15, 12.12.16, 12.12.17, 12.12.18, 12.12.20, 12.12.26, 12.12.28, 13.3.2, 13.3.3, 13.3.5, 13.9.2, 13.11.2, 13.11.5, 13.11.6, 13.11.7, 13.12.1, 13.12.4, 13.12.11
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3.6 Area Management Plan(s)

Nil

3.7 Coastal or non-coastal

For the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP), this property is regarded as*

Coastal

*See also Map 4.3

3.8 Agricultural Land Class A or B

The following can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code:

Does this lot contain land that is mapped as Agricultural Land Class A or B in the State Planning Interactive Mapping System?

No Class A

No Class B

Note - This confirms Agricultural Land Classes as per the State Planning Interactive Mapping System only. This response does not include Agricultural Land Classes identified under local government planning schemes. For further information, check the Planning Scheme for your local government area.

See Map 4.4 to identify the location and extent of Class A and/or Class B Agricultural land on Lot: 1 Plan: SP266267.

4. Vegetation management framework maps

Vegetation management maps included in this report may also be requested individually at:

<https://www.resources.qld.gov.au/qld/environment/land/vegetation/vegetation-map-request-form>

Regulated vegetation management map

The regulated vegetation management map shows vegetation categories needed to determine clearing requirements. These maps are updated monthly to show new [property maps of assessable vegetation \(PMAV\)](#).

Vegetation management supporting map

The vegetation management supporting map provides information on regional ecosystems, wetlands, watercourses and essential habitat.

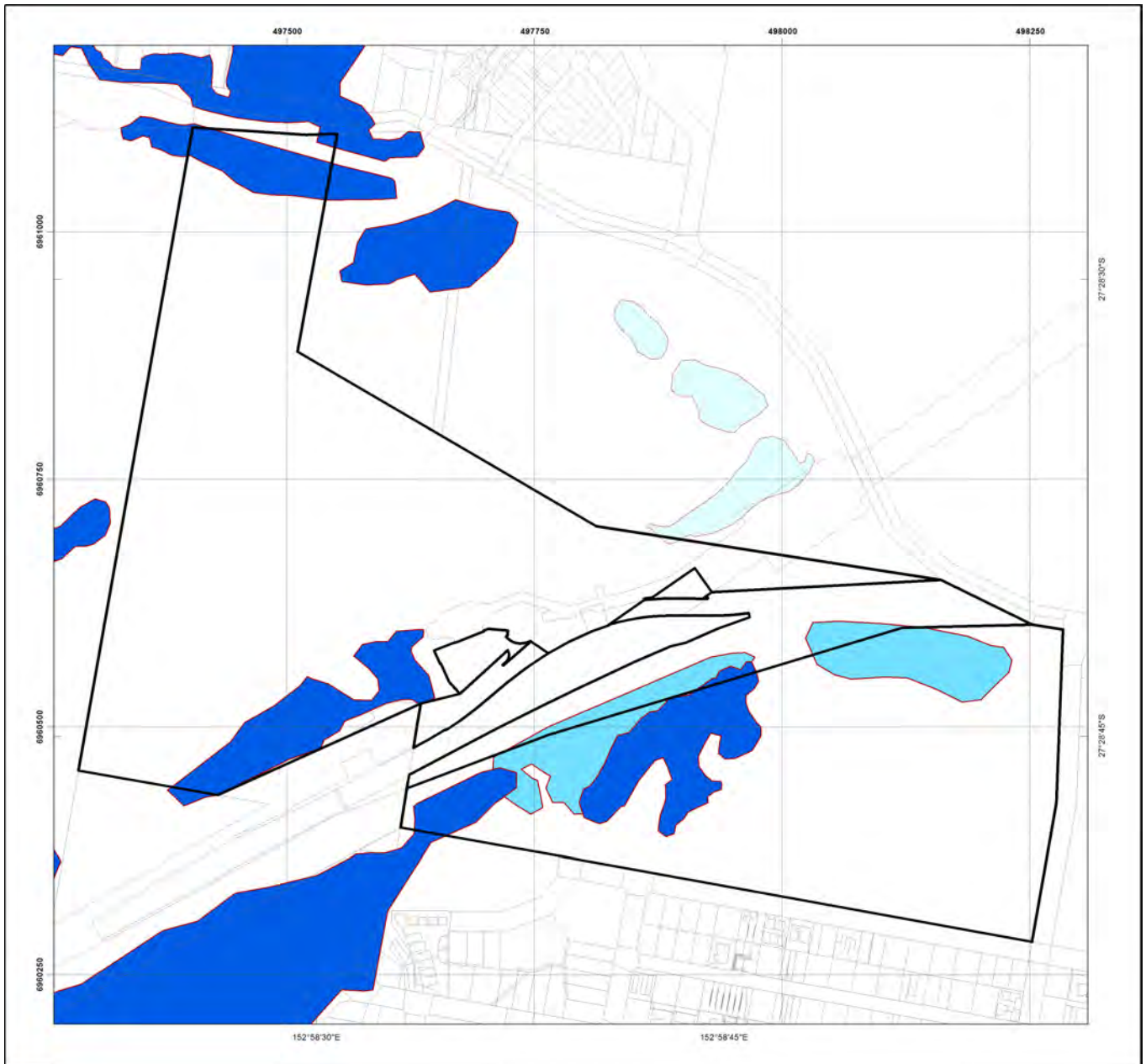
Coastal/non-coastal map

The coastal/non-coastal map confirms whether the lot, or which parts of the lot, are considered coastal or non-coastal for the purposes of the accepted development vegetation clearing codes and State Code 16 of the State Development Assessment Provisions (SDAP).

Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture










The Agricultural Land Class map confirms the location and extent of land mapped as Agricultural Land Classes A or B as identified on the State Planning Interactive Mapping System. Please note that this map does not include areas identified as Agricultural Land Class A or B in local government planning schemes. This map can be used to identify Agricultural Land Class A or B areas under the "Managing regulated regrowth vegetation" accepted development vegetation clearing code.

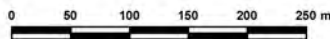
4.1 Regulated vegetation management map



Regulated Vegetation Management Map

Legend

-  Selected Lot and Plan
-  Category A area (Vegetation offsets/compliance notices/VDecs)
-  Category B area (Remnant vegetation)
-  Category C area (High-value regrowth vegetation)
-  Category R area (Reef regrowth watercourse vegetation)
-  Category X area (Exempt clearing work on Freehold, Indigenous and Leasehold land)
-  Water
-  Area not categorised
-  Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

Disclaimer:

While every care is taken to ensure the accuracy of this product, the Department of Resources 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 you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

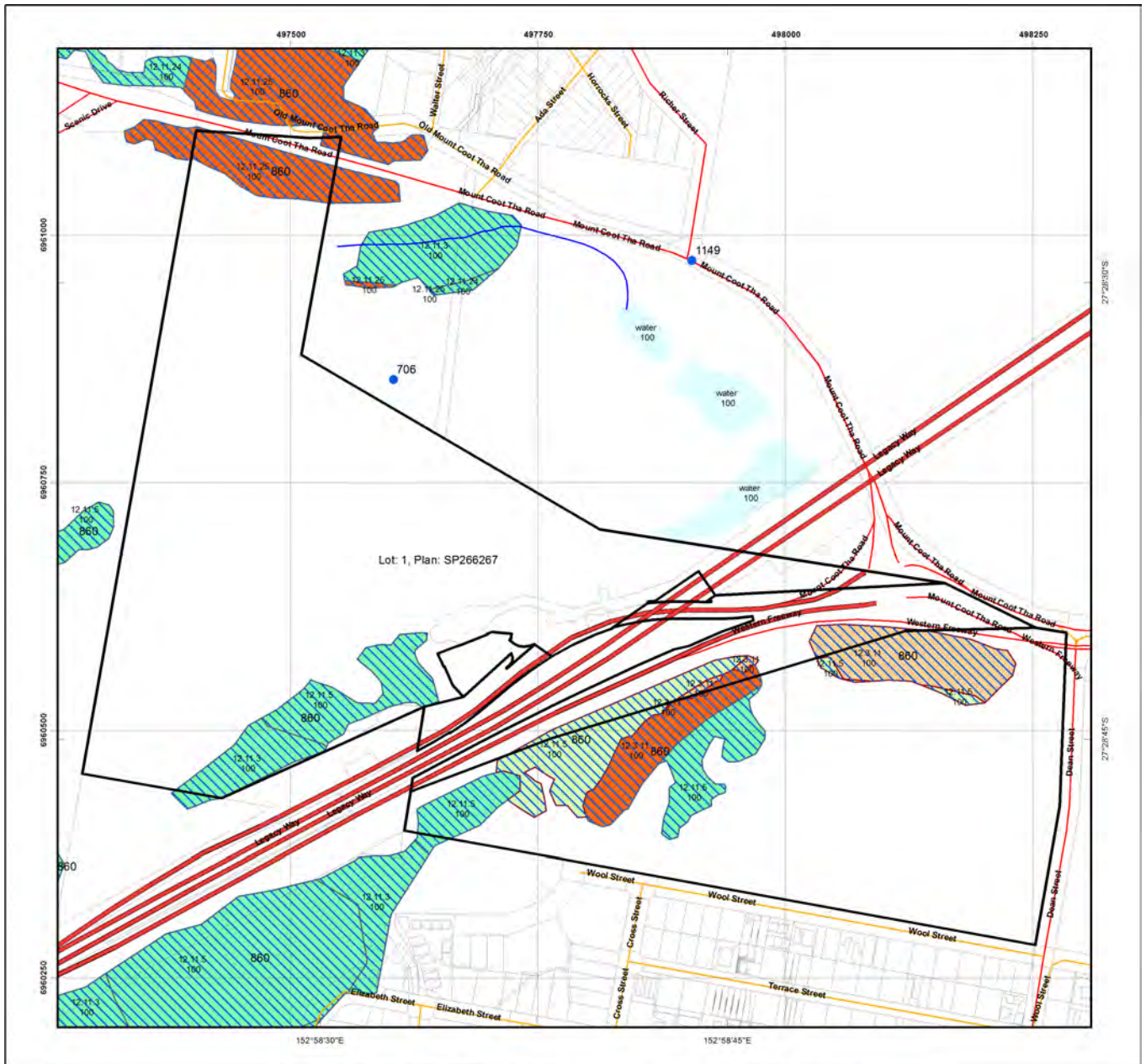
Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>

Land parcel boundaries are provided as locational aid only.

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.



4.2 Vegetation management supporting map



Vegetation Management Supporting Map

Legend

- Selected Lot and Plan
- Category A or B area containing endangered regional ecosystems
- Category A or B area containing of concern regional ecosystems
- Category A or B area that is a least concern regional ecosystem
- Category C or R area containing endangered regional ecosystems
- Category C or R area containing of concern regional ecosystems
- Category C or R area that is a least concern regional ecosystem
- Category X area
- Water
- Wetland on the vegetation management wetlands map
- Essential habitat on the essential habitat map
- Essential habitat species record
- Watercourses and drainage features on the vegetation management watercourse and drainage features map (Stream order shown as black number against stream where available)
- Highway
- Connector
- Street/Local Road
- National Parks, State Forest and other reserves
- Other land parcel boundaries



0 40 80 120 160 200 m

This product is projected into:
GDA 1994 MGA Zone 56

Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

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Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.resources.qld.gov.au or contact the Department of Resources.

Digital data for the vegetation management watercourse and drainage feature map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>





Land parcel boundaries are provided as locational aid only.

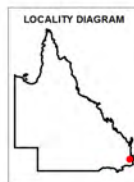
4.3 Coastal/non-coastal map



Coastal/Non Coastal Map

Legend

-  Selected Lot and Plan
-  Coastal
-  Non Coastal
-  Other land parcel boundaries



This product is projected into:
GDA 1994 MGA Zone 56

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Land parcel boundaries shown are provided as a locational aid only.











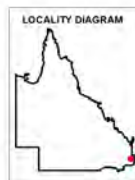
4.4 Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture



Agricultural Land Class A or B as per State Planning Policy: State Interest for Agriculture

Legend

-  Selected Lot and Plan
-  Towns
-  Rivers and creeks
-  Freeways / motorways; Highways
-  Secondary roads; Streets
- Agricultural land class A or B
-  A
-  B
-  Not class A or B



This product is projected into GDA 1994 MGA Zone 56

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5. Protected plants framework (administered by the Department of Environment and Science (DES))

In Queensland, all plants that are native to Australia are protected plants under the [Nature Conservation Act 1992](#) (NCA). The NCA regulates the clearing of protected plants 'in the wild' (see [Operational policy: When a protected plant in Queensland is considered to be 'in the wild'](#)) that are listed as critically endangered, endangered, vulnerable or near threatened under the Act.

Please note that the protected plant clearing framework applies irrespective of the classification of the vegetation under the *Vegetation Management Act 1999* and any approval or exemptions given under another Act, for example, the *Vegetation Management Act 1999* or *Planning Regulation 2017*.

5.1 Clearing in high risk areas on the flora survey trigger map

The flora survey trigger map identifies high-risk areas for endangered, vulnerable or near threatened (EVNT) plants. These are areas where EVNT plants are known to exist or are likely to exist based on the habitat present. The flora survey trigger map for this property is provided in section 5.5.

If you are proposing to clear an area shown as high risk on the flora survey trigger map, a flora survey of the clearing impact area must be undertaken by a suitably qualified person in accordance with the [Flora survey guidelines](#). The main objective of a flora survey is to locate any EVNT plants that may be present in the clearing impact area.

If the flora survey identifies that EVNT plants are not present within the clearing impact area or clearing within 100m of EVNT plants can be avoided, the clearing activity is exempt from a permit. An [exempt clearing notification form](#) must be submitted to the Department of Environment and Science, with a copy of the flora survey report, at least one week prior to clearing.

If the flora survey identifies that EVNT plants are present in, or within 100m of, the area to be cleared, a clearing permit is required before any clearing is undertaken. The flora survey report, as well as an impact management report, must be submitted with the [clearing permit application form](#).

5.2 Clearing outside high risk areas on the flora survey trigger map

In an area other than a high risk area, a clearing permit is only required where a person is, or becomes aware that EVNT plants are present in, or within 100m of, the area to be cleared. You must keep a copy of the flora survey trigger map for the area subject to clearing for five years from the day the clearing starts. If you do not clear within the 12 month period that the flora survey trigger map was printed, you need to print and check a new flora survey trigger map.

5.3 Exemptions

Many activities are 'exempt' under the protected plant clearing framework, which means that clearing of native plants that are in the wild can be undertaken for these activities with no need for a flora survey or a protected plant clearing permit. The Information sheet - General exemptions for the take of protected plants provides some of these exemptions.

Some exemptions under the NCA are the same as exempt clearing work (formerly known as exemptions) under the *Vegetation Management Act 1999* (i.e. listed in Schedule 21 of the Planning Regulations 2017) while some are different.

5.4 Contact information for DES

For further information on the protected plants framework:

Phone 1300 130 372 (and select option four)

Email palm@des.qld.gov.au

Visit <https://www.qld.gov.au/environment/plants-animals/plants/protected-plants>

5.5 Protected plants flora survey trigger map

This map included may also be requested individually at: <https://apps.des.qld.gov.au/map-request/flora-survey-trigger/>.

Updates to the data informing the flora survey trigger map

The flora survey trigger map will be reviewed, and updated if necessary, at least every 12 months to ensure the map reflects the most up-to-date and accurate data available.






Species information

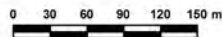
Please note that flora survey trigger maps do not identify species associated with 'high risk areas'. While some species information may be publicly available, for example via the [Queensland Spatial Catalogue](#), the Department of Environment and Science does not provide species information on request. Regardless of whether species information is available for a particular high risk area, clearing plants in a high risk area may require a flora survey and/or clearing permit. Please see the Department of Environment and Science webpage on the [clearing of protected plants](#) for more information.



Protected Plants Flora Survey Trigger Map

Legend

-  Selected Lot and Plan
-  High risk area
-  Other land parcel boundaries
-  Freeways / motorways / highways
-  Secondary roads / streets



This product is projected into:
GDA 1994 MGA Zone 56

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

Land parcel boundaries are provided as locational aid only.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@des.qld.gov.au

Disclaimer:
While every care is taken to ensure the accuracy of the data used to generate this product, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data, or as a result of the data being inaccurate or incomplete in any way and for any reason.

6. Koala protection framework (administered by the Department of Environment and Science (DES))

The koala (*Phascolarctos cinereus*) is listed in Queensland as vulnerable by the Queensland Government under *Nature Conservation Act 1992* and by the Australian Government under the *Environment Protection and Biodiversity Conservation Act 1999*.

The Queensland Government's koala protection framework is comprised of the *Nature Conservation Act 1992*, the Nature Conservation (Animals) Regulation 2020, the Nature Conservation (Koala) Conservation Plan 2017, the *Planning Act 2016* and the Planning Regulation 2017.

6.1 Koala mapping

6.1.1 Koala districts

The parts of Queensland where koalas are known to occur has been divided into three koala districts - koala district A, koala district B and koala district C. Each koala district is made up of areas with comparable koala populations (e.g. density, extent and significance of threatening processes affecting the population) which require similar management regimes.

Section 7.1 identifies which koala district your property is located in.

6.1.2 Koala habitat areas

Koala habitat areas are areas of vegetation that have been determined to contain koala habitat that is essential for the conservation of a viable koala population in the wild based on the combination of habitat suitability and biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water). In order to protect this important koala habitat, clearing controls have been introduced into the Planning Regulation 2017 for development in koala habitat areas.

Please note that koala habitat areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley, Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

There are two different categories of koala habitat area (core koala habitat area and locally refined koala habitat), which have been determined using two different methodologies. These methodologies are described in the document [Spatial modelling in South East Queensland](#).

Section 7.2 shows any koala habitat area that exists on your property.

Under the Nature Conservation (Koala) Conservation Plan 2017, an owner of land (or a person acting on the owner's behalf with written consent) can request to make, amend or revoke a koala habitat area determination if they believe, on reasonable grounds, that the existing determination for all or part of their property is incorrect.

More information on requests to make, amend or revoke a koala habitat area determination can be found in the document [Guideline - Requests to make, amend or revoke a koala habitat area determination](#).

The koala habitat area map will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.

Changes to the koala habitat area map which occur between annual updates because of a request to make, amend or revoke a koala habitat area determination can be viewed on the register of approved requests to make, amend or revoke a koala habitat area available at: <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/koalamaps>. The register includes the lot on plan for the change, the date the decision was made and the map issued to the landholder that shows areas determined to be koala habitat areas.

6.1.3 Koala priority areas

Koala priority areas are large, connected areas that have been determined to have the highest likelihood of achieving conservation outcomes for koalas based on the combination of habitat suitability, biophysical variables with known relationships to koala habitat (e.g. landcover, soil, terrain, climate and ground water) and a koala conservation cost benefit analysis.

Conservation efforts will be prioritised in these areas to ensure the conservation of viable koala populations in the wild including a focus on management (e.g. habitat protection, habitat restoration and threat mitigation) and monitoring. This includes a prohibition on clearing in koala habitat areas that are in koala priority areas under the Planning Regulation 2017 (subject to some exemptions).

Please note that koala priority areas only exist in koala district A which is the South East Queensland "Shaping SEQ" Regional Plan area. These areas include the local government areas of Brisbane, Gold Coast, Logan, Lockyer Valley,

Ipswich, Moreton Bay, Noosa, Redland, Scenic Rim, Somerset, Sunshine Coast and Toowoomba (urban extent).

Section 7.2 identifies if your property is in a koala priority area.

6.1.4 Identified koala broad-hectare areas

There are seven identified koala broad-hectare areas in SEQ. These are areas of koala habitat that are located in areas committed to meet development targets in the SEQ Regional Plan to accommodate SEQ's growing population including bring-forward Greenfield sites under the Queensland Housing Affordability Strategy and declared master planned areas under the repealed *Sustainable Planning Act 2009* and the repealed *Integrated Planning Act 1997*.

Specific assessment benchmarks apply to development applications for development proposed in identified koala broad-hectare areas to ensure koala conservation measures are incorporated into the proposed development.

Section 7.2 identifies if your property is in an identified koala broad-hectare area.

6.2 Koala habitat planning controls

On 7 February 2020, the Queensland Government introduced new planning controls to the Planning Regulation 2017 to strengthen the protection of koala habitat in South East Queensland (i.e. koala district A).

More information on these planning controls can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

As a high-level summary, the koala habitat planning controls make:

- development that involves interfering with koala habitat (defined below) in an area that is both a koala priority area and a koala habitat area, prohibited development (i.e. development for which a development application cannot be made);
- development that involves interfering with koala habitat (defined below) in an area that is a koala habitat area but is not a koala priority area, assessable development (i.e. development for which development approval is required); and
- development that is for extractive industries where the development involves interfering with koala habitat (defined below) in an area that is both a koala habitat area and a key resource area, assessable development (i.e. development for which development approval is required).

Interfering with koala habitat means:

- 1) Removing, cutting down, ringbarking, pushing over, poisoning or destroying in anyway, including by burning, flooding or draining native vegetation in a koala habitat area; but
- 2) Does not include destroying standing vegetation by stock or lopping a tree.

However, these planning controls do not apply if the development is exempted development as defined in Schedule 24 of the [Planning Regulation 2017](#). More information on exempted development can be found here:

<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/legislation-policy>.

There are also assessment benchmarks that apply to development applications for:

- building works, operational works, material change of use or reconfiguration of a lot where:
 - the local government planning scheme makes the development assessable;
 - the premises includes an area that is both a koala priority area and a koala habitat area; and
 - the development does not involve interfering with koala habitat (defined above); and
- development in identified koala broad-hectare areas.

The [Guideline - Assessment Benchmarks in relation to Koala Habitat in South East Queensland assessment benchmarks](#) outlines these assessment benchmarks, the intent of these assessment benchmarks and advice on how proposed development may meet these assessment benchmarks.

6.3 Koala Conservation Plan clearing requirements

Section 10 and 11 of the [Nature Conservation \(Koala\) Conservation Plan 2017](#) prescribes requirements that must be met when clearing koala habitat in koala district A and koala district B.

These clearing requirements are independent to the koala habitat planning controls introduced into the Planning Regulation 2017, which means they must be complied with irrespective of any approvals or exemptions offered under other legislation.

Unlike the clearing controls prescribed in the Planning Regulation 2017 that are to protect koala habitat, the clearing requirements prescribed in the Nature Conservation (Koala) Conservation Plan 2017 are in place to prevent the injury or death of koalas when koala habitat is being cleared.

6.4 Contact information for DES

For further information on the koala protection framework:

Phone 13 QGOV (13 74 68)

Email koala.assessment@des.qld.gov.au

Visit <https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping>

7. Koala protection framework details for Lot: 1 Plan: SP266267

7.1 Koala districts

Koala District A

7.2 Koala priority area, koala habitat area and identified koala broad-hectare area map



Koala priority area, koala habitat area and identified koala broad-hectare area map

Legend

- Selected Lot and Plan
- Koala habitat area (core)
- Koala habitat area (locally refined)
- Koala priority area
- Identified koala broad-hectare area
- Cadastral Boundaries
- Towns
- Highway
- Connector
- Street/Local Road
- Major rivers/creeks
- Queensland

The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.



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The koala conservation plan maps will be updated at least annually to include any koala habitat areas that have been made, amended or revoked.

In order to ensure that the most recent map for an area of interest can be accessed, prior to the annual update, a register of changes made to koala habitat areas as a result of the map amendment process will be available at:
<https://environment.des.qld.gov.au/wildlife/animals/living-with/koalas/mapping/>. The register will include lot on plan for the change, the date the decision was made and the map issued to the landholder which shows areas determined to be koala habitat areas.

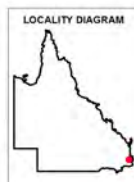
7.3 Koala habitat regional ecosystems for core koala habitat areas



Koala habitat regional ecosystems for core koala habitat areas

Legend

- Selected Lot and Plan
- Koala habitat area (core)
- Towns
- Highway
- Connector
- Street/Local Road
- Major rivers/creeks
- Queensland



N



The koala habitat mapping within South East Queensland uses regional ecosystem linework compiled at a scale varying from 1:25,000 to 1:100,000. Linework should be used as a guide only. The positional accuracy of regional ecosystem data mapped at a scale of 1:100,000 is +/- 100 metres.

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8. Other relevant legislation contacts list

Activity	Legislation	Agency	Contact details
<ul style="list-style-type: none"> • Interference with overland flow • Earthworks, significant disturbance 	<i>Water Act 2000</i> <i>Soil Conservation Act 1986</i>	Department of Regional Development, Manufacturing and Water (Queensland Government) Department of Resources (Queensland Government)	Ph: 13 QGOV (13 74 68) www.rdmw.qld.gov.au www.resources.qld.gov.au
<ul style="list-style-type: none"> • Indigenous Cultural Heritage 	<i>Aboriginal Cultural Heritage Act 2003</i> <i>Torres Strait Islander Cultural Heritage Act 2003</i>	Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships	Ph: 13 QGOV (13 74 68) www.datsip.qld.gov.au
<ul style="list-style-type: none"> • Mining and environmentally relevant activities • Infrastructure development (coastal) • Heritage issues 	<i>Environmental Protection Act 1994</i> <i>Coastal Protection and Management Act 1995</i> <i>Queensland Heritage Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) www.des.qld.gov.au
<ul style="list-style-type: none"> • Protected plants and protected areas 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 1300 130 372 (option 4) palm@des.qld.gov.au www.des.qld.gov.au
<ul style="list-style-type: none"> • Koala mapping and regulations 	<i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) Koala.assessment@des.qld.gov.au
<ul style="list-style-type: none"> • Interference with fish passage in a watercourse, mangroves • Forestry activities on State land tenures 	<i>Fisheries Act 1994</i> <i>Forestry Act 1959</i>	Department of Agriculture and Fisheries (Queensland Government)	Ph: 13 QGOV (13 74 68) www.daf.qld.gov.au
<ul style="list-style-type: none"> • Matters of National Environmental Significance including listed threatened species and ecological communities 	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Department of Agriculture, Water and the Environment (Australian Government)	Ph: 1800 803 772 www.environment.gov.au
<ul style="list-style-type: none"> • Development and planning processes 	<i>Planning Act 2016</i> <i>State Development and Public Works Organisation Act 1971</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) www.dsdmip.qld.gov.au
<ul style="list-style-type: none"> • Local government requirements 	<i>Local Government Act 2009</i> <i>Planning Act 2016</i>	Department of State Development, Infrastructure, Local Government and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) Your relevant local government office
<ul style="list-style-type: none"> • Harvesting timber in the Wet Tropics of Qld World Heritage area 	<i>Wet Tropics World Heritage Protection and Management Act 1993</i>	Wet Tropics Management Authority	Ph: (07) 4241 0500 www.wettropics.gov.au

ATTACHMENT 6

