

## REPORT

# Review of Environmental Factors

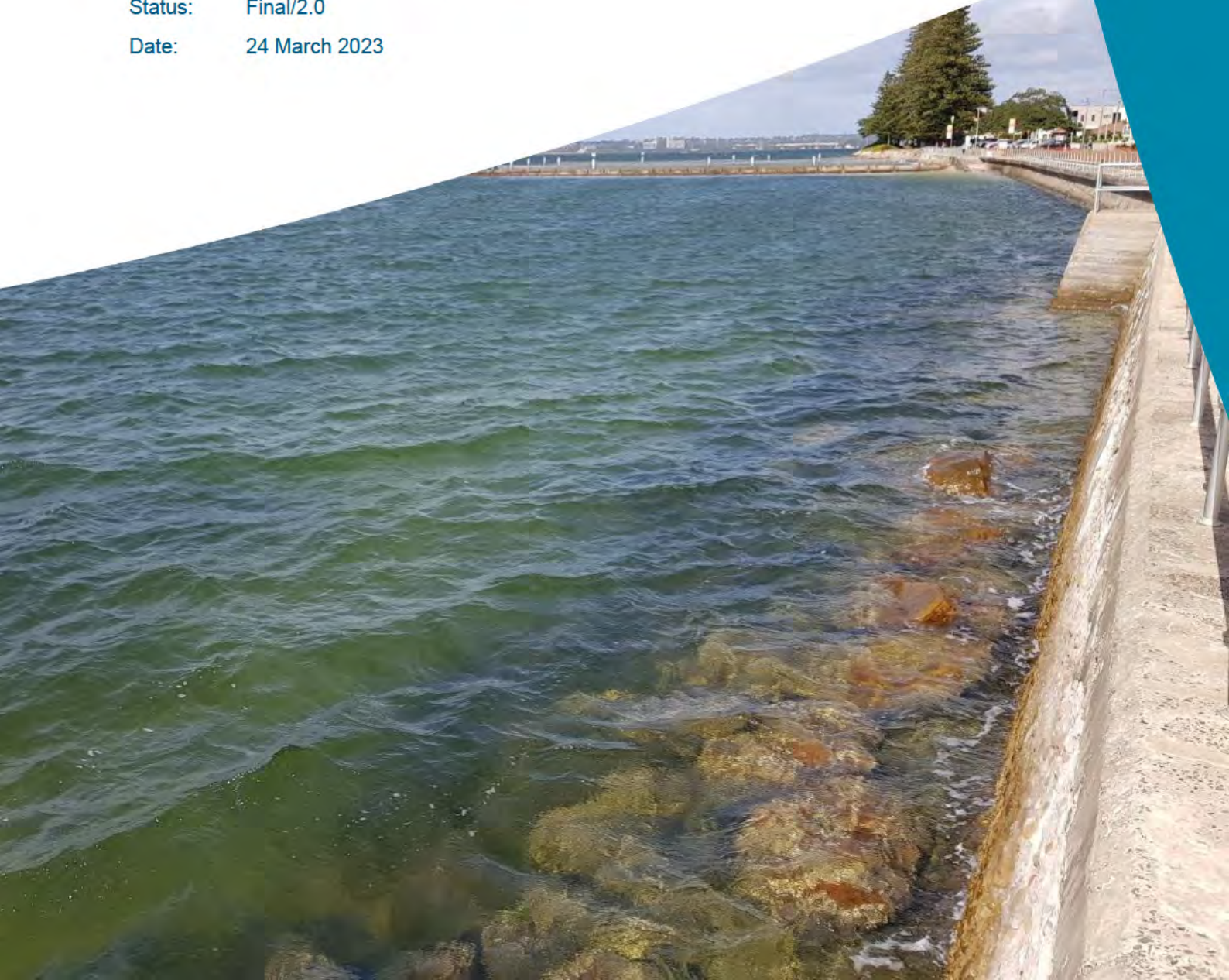
Sandringham Seawall Remediation and Shared Path  
Upgrade Works

Client: Bayside Council

Reference: PA2711-RHD-RP-REF-001

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Appendix B: Marine Ecology Survey Report (Seadragon Diving Co., 2022)



Appendix C: EPBC Protected Matters Search

Appendix D: BioNet Atlas Search Results

## Acronyms

| Abbreviation | Description                                                                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AHD          | Australian Height Datum                                                                                                                                                                                                                                   |
| AS           | Australian Standard                                                                                                                                                                                                                                       |
| BC Act       | <i>Biodiversity Conservation Act 2016 (NSW).</i>                                                                                                                                                                                                          |
| CEMP         | Construction environmental management plan                                                                                                                                                                                                                |
| CM SEPP      | <i>State Environmental Planning Policy (Coastal Management) 2018</i>                                                                                                                                                                                      |
| dB           | Decibels                                                                                                                                                                                                                                                  |
| dB(A)        | A-weighted decibels; an expression of the relative loudness of sounds in air as perceived by the human ear                                                                                                                                                |
| DPI          | Department of Primary Industries (Fisheries)                                                                                                                                                                                                              |
| DPE          | Department of Planning and Environment                                                                                                                                                                                                                    |
| EP&A Act     | <i>Environmental Planning and Assessment Act 1979 (NSW).</i> Provides the legislative framework for land use planning and development assessment in NSW                                                                                                   |
| EPBC Act     | <i>Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth).</i> Provides for the protection of the environment, especially matters of national environmental significance, and provides a national assessment and approvals process. |
| FM Act       | <i>Fisheries Management Act 1994 (NSW)</i>                                                                                                                                                                                                                |
| Heritage Act | <i>Heritage Act 1977 (NSW)</i>                                                                                                                                                                                                                            |
| LEP          | Local Environmental Plan. A type of planning instrument made under Part 3 of the EP&A Act.                                                                                                                                                                |
| MHWM         | Mean high water mark                                                                                                                                                                                                                                      |
| MNES         | Matters of national environmental significance under the Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999.</i>                                                                                                               |
| REF          | Review of Environmental Factors                                                                                                                                                                                                                           |
| SEPP         | State Environmental Planning Policy. A type of planning instrument made under Part 3 of the EP&A Act.                                                                                                                                                     |
| REF          | Review of Environmental Factors                                                                                                                                                                                                                           |
| RHDHV        | Royal HaskoningDHV                                                                                                                                                                                                                                        |

# 1 Introduction

## 1.1 Overview

This document comprises a Review of Environmental Factors (REF) for the proposed seawall remediation and shared path upgrade works. The seawall remediation works comprises the installation of a 5m wide riprap apron along the toe of the existing seawall. The existing footpath is proposed to be demolished to uncover the location and extent of voids that have formed behind the seawall. These voids would be backfilled with lightly compacted crushed sandstone and finished with topsoil and turfing. The reinstated shared path is proposed to be relocated at a landward offset of 2.9m from the seawall to allow for the maintenance of a grassed embankment area immediately behind the seawall.

This REF has been prepared by Royal HaskoningDHV (RHDHV) in accordance with the requirements under sections 5.5 and 5.6 of the Environmental Planning & Assessment Act, 1979 (EP&A Act) to assess the potential environmental impacts associated with the seawall remediation and shared path upgrade works and proposes methods of mitigating any potential adverse impacts.

## 1.2 Project Background

### 1.2.1 Existing Seawall

This project has been commissioned by Bayside Council in response to the undermining of a seawall at the Sandringham foreshore, between the southern end of Dolls Point Beach, and the Vanston Baths. The study area is shown in **Figure 1-1**.



Figure 1-1: Study area within Botany Bay

The existing 3m high mass concrete seawall (refer to indicative design cross section shown in **Figure 1-2**), constructed in the 1930's, extends approximately 420m along the Sandringham Bay foreshore. Council has noted that over a period of some 25 years, due to ongoing beach erosion in Botany Bay, the beach in front of the seawall has dropped by over 2.5m. The depletion of sand is now exposing the base of the seawall. This has led to undermining of the seawall, washout of backfill material from behind the seawall, and has caused the existing path behind it to settle and collapse in places.

The existing seawall comprises:

- Mass gravity concrete seawall (3.0m high)
- Timber sheet piling cut-off wall beneath the toe of the seawall – 230x100mm (deteriorated)
- 250x250mm piles at 3.0m centres
- Rubble foundation
- Rubble (drainage) layer behind wall
- No signs of rotation or other movement

At the same time, Council has a proposal to upgrade the existing path due to its popularity, which would involve demolition of the existing path and construction of a new wider shared path for pedestrians and cyclists at a landward offset of 2.9m behind the seawall. The shared path upgrade works will be undertaken in conjunction with the seawall remediation works.

This REF assesses both the seawall remediation works, comprising installation of a riprap apron along the toe of the existing seawall and infilling of voids behind the seawall, and upgrading of the shared path behind the seawall.

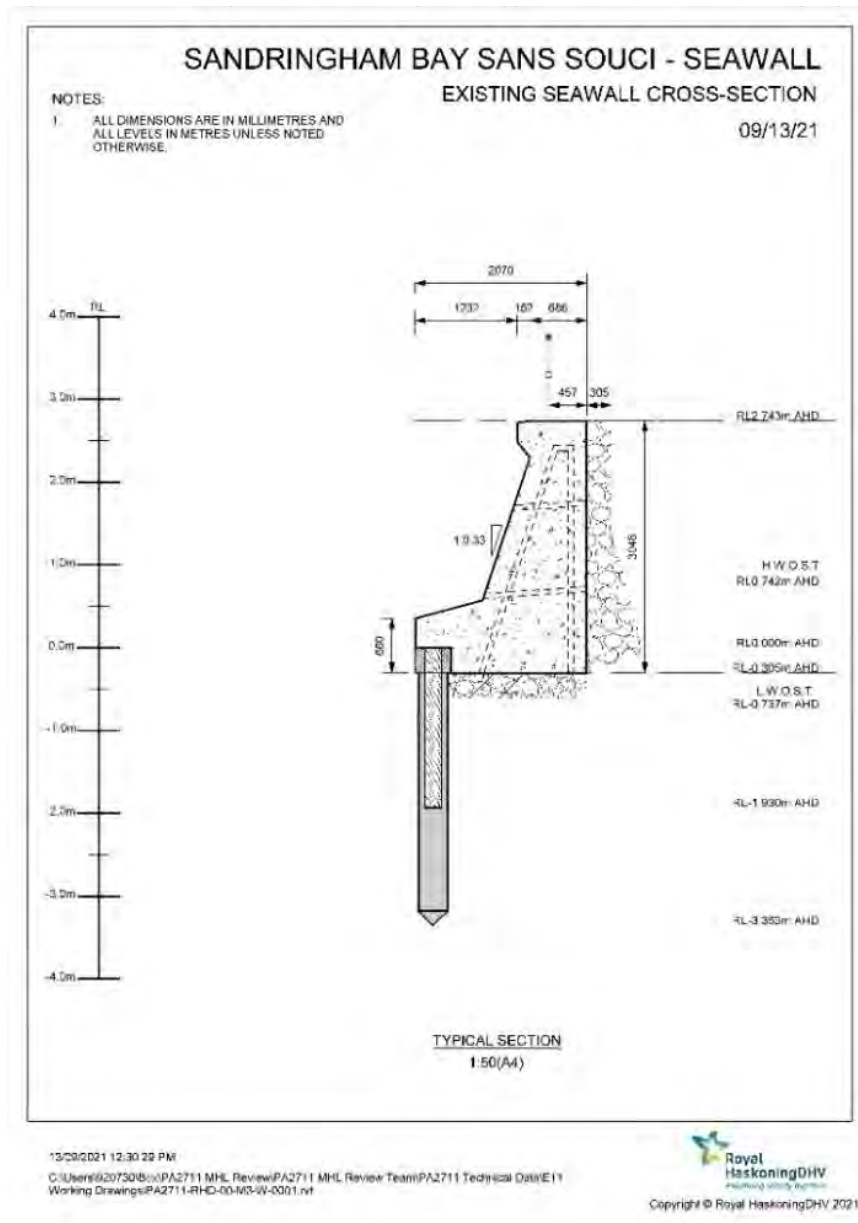


Figure 1-2: Existing Sandringham Bay Seawall Indicative Cross-Section

## 2 Proposed Activity and Consideration of Alternatives

### 2.1 Proposed Activity

The proposed seawall remediation and shared path upgrade works comprise three main components:

- A 5m wide riprap apron placed along the toe of the existing seawall, extending over a length of approximately 331m from the existing concrete panel groyne structure (CH14.5) in the south to the dune erosion scarp at the rear of the beach area in the north (CH345.2). The riprap apron will be a minimum of two rocks thick and placed on a geotextile fabric. The selection of preferred rock materials (igneous or sandstone) has not yet been confirmed.
- Demolition of the existing footpath to uncover the location and extent of voids that have formed behind the seawall. These voids would be backfilled with lightly compacted crushed sandstone and finished with topsoil and turfing.
- Construction of the new shared path at a landward offset of 2.9m from the seawall to allow provision of a grassed embankment area immediately behind the seawall.

#### 2.1.1 Existing Site Description

The study area comprises the existing seawall and footpath north of the Vanston Parade Groyne (CH00 – CH370), and Cook Park to the North (refer **Appendix A** for design drawings).

An existing rock toe structure is visible along the seawall between CH130 and CH310. The existing suitable rock is proposed to be supplemented with additional imported rock riprap to provide the required thickness and width for the rock apron design. Localised excavation of the sand lobe at the southern limit of the site and the beach sand at the northern limit of the site is required to access the toe of the seawall to install the riprap apron. Excavated sand would be reinstated to the pre-construction seabed profile (i.e. placed over the riprap apron as required) and any excess sand would be placed and profiled on the northern beach area as directed by Council.

The footpath currently comprises a paved path directly behind the existing seawall. The pavement for this path includes sections of asphalt and concrete slabs, under which cavities have formed from loss of backfill material that has been washed out through undermined sections of the seawall toe.

#### 2.1.2 Construction Activities

Site works are to be conducted from a site compound near the proposed works (see **Figure 2-1**). At this stage, the final site compound has not been finalised, however the site compound could be situated to the north of the site, in the foreshore reserve and carpark at the end of Sanoni Avenue and directly west of the Georges River Sailing Club (northern site compound), and/or at the Vanston Parade carpark and foreshore area, to the south of the site (southern site compound) (refer **Section 2.1.2.1**).



Figure 2-1: Site Layout

Access for construction equipment would be required along the foreshore reserve area landward of the seawall. Site access from the seaward side of the seawall could be achieved by either:

- use of placed riprap rock as a construction platform for trafficking of land-based plant and equipment along the toe of the seawall; or,
- use of shallow draught floating plant and equipment (i.e. work barges) to access the seawall under suitable tide conditions.
- loading riprap rock over the top of the seawall into position at the toe. Plant would sit behind the seawall and ferry rock material over to the team below. This should ensure additional surcharge loading behind the seawall will not impact the seawall stability.

Geotextile fabric is to be placed underneath the entire length of the riprap apron. This will require the removal of existing rock along the toe of the seawall prior to the placement of geotextile. The removal of this material may require shallow draught floating plant to allow access to the existing rock. Additionally, a suitable rock storage area for this rock may be required during this stage.

It is noted that if trafficking of plant and equipment over the riprap layer is proposed, then only igneous rock is permitted to be used for construction of the rock apron. The use of sandstone would result in excessive crushing of the rock when trafficked by heavy plant and equipment.

It is recommended that the construction of the riprap apron is coordinated with the construction of the shared path upgrade and void infilling works on the landward side of the seawall.

Construction activities would be guided by a Construction Environmental Management Plan (CEMP) to ensure work is carried out to the relevant environmental specifications within the site. Detailed work methodologies and sequencing would be determined prior to construction once a Contractor has been engaged. The proposed indicative work methodology is described below:

Prior to construction:

- establish site compound(s);
- install environmental controls in accordance with the CEMP including erosion and sediment controls;
- conduct a dilapidation survey of the adjacent seawall; and,
- where walking routes are closed, place additional signage for alternative walking routes.

Rock placement methodology options:

- Methodology 1: progressive placement of riprap with small excavators fed by small trucks (e.g. Moxy) transporting loads of rock between the Rock Storage Area and the seawall site using placed rock as a construction platform;
- Methodology 2: progressive placement of riprap by small excavators on floating barges with rock being supplied on flat-top barges or skip bins, with transfer of rock to barges at the northern beach shoreline by small trucks (e.g. Moxy) and excavators; and,
- Methodology 3: progressive placement of riprap over the top of the seawall using suitable lifting plant to access the toe position.

During construction:

- display traffic warning signs on the relevant access roads and pedestrian access signs adjacent to the pedestrian access points to notify beach users of restricted areas;
- import required rock in trucks and stockpile in a designated Rock Storage Area;
- removal of existing rock along toe of seawall, localised excavation of sand, and stockpiling as required in site compound areas;
- placement, ballasting and anchoring of geotextile fabric by the contractor. The contractor should consider a suitable placement methodology for the coastal/marine environment;
- progressive placement of riprap according to the chosen methodology; reinstatement of seabed and beach profile with excavated sand;
- demolition of existing footpath with manually operated equipment and small excavators, and loading into skip bins or trucks for offsite disposal;
- infilling of voids behind the seawall with crushed sandstone, delivered by trucks and placed by small-scale earthmoving equipment;
- installation of upgraded shared path, including subgrade preparation, subbase and concrete, using manual labour, concrete trucks, and small-scale earthmoving equipment; and,
- placement of topsoil and turf to prepare grassed embankment between seawall and shared path, using delivery trucks, small-scale earthmoving equipment, and manual labour.

Based on the estimated rock requirements, the approximate number of truck movements would be as follows assuming an average load of say 15t:

- importation of rocks: 95 truck movements (one way).

Post-construction to rehabilitate and clean up the site:

- dispose of any unused spoil to an appropriate waste management facility, in accordance with the NSW Environment Protection Authority Waste Classification Guidelines (NSW EPA 2014);
- carry out a post-construction dilapidation survey of adjacent infrastructure;

- restore disturbed areas, including vegetation, to pre-existing condition;
- repair road/beach/foreshore surface to the pre-existing condition;
- remove all waste and tidying of construction site to pre-existing condition; and,
- remove environmental controls.

#### **2.1.2.1 Contractor's Working Area**

Site works areas, including two potential site compound areas are indicated on **Figure 2-2**.

The Contractor's Site Compound has not been confirmed at this stage, and could be located at either or both of:

- the south-western end of the beach carpark at the end of Sanoni Avenue (northern site compound); or,

the Vanston Parade carpark (southern site compound).

A Rock Storage Area could be located in the foreshore reserve area (Depena Reserve) directly adjacent to the northern perimeter of the beach carpark at the end of Sanoni Avenue. Access to the seaward side of the seawall site from the north would be available via the beach at the northern end of the seawall, with access to the beach provided by the two existing sand ramps located adjacent to the northern site compound along the southern perimeter of the beach carpark. Access to the seaward side of the seawall site from the south would be available via the concrete access ramp at Vanston Parade.

The southern site compound at Vanston Parade is unlikely to be large enough to store significant quantities of rock (total available area is approximately 650 m<sup>2</sup>). The use of this area for rock storage would require coordination of rock deliveries by the contractor to ensure rock quantities on site don't exceed the volume that can be safely stored within the site compound. Alternatively, areas within the shared path construction footprint behind the seawall (e.g. areas adjacent to Ida Street) could be used to temporarily store rock prior to placement if required. In addition, the reserve area behind the seawall could also be accessed via the end of Ida Street for rock delivery and stockpiling.

It should be noted that the southern site compound is adjacent to the boundaries of the Council managed Crown Land Reserve 500191. Extension of the site compound beyond the carparking spaces (over the Vanston Parade roadway) would require additional traffic management and would require additional approvals (e.g. a road opening permit).

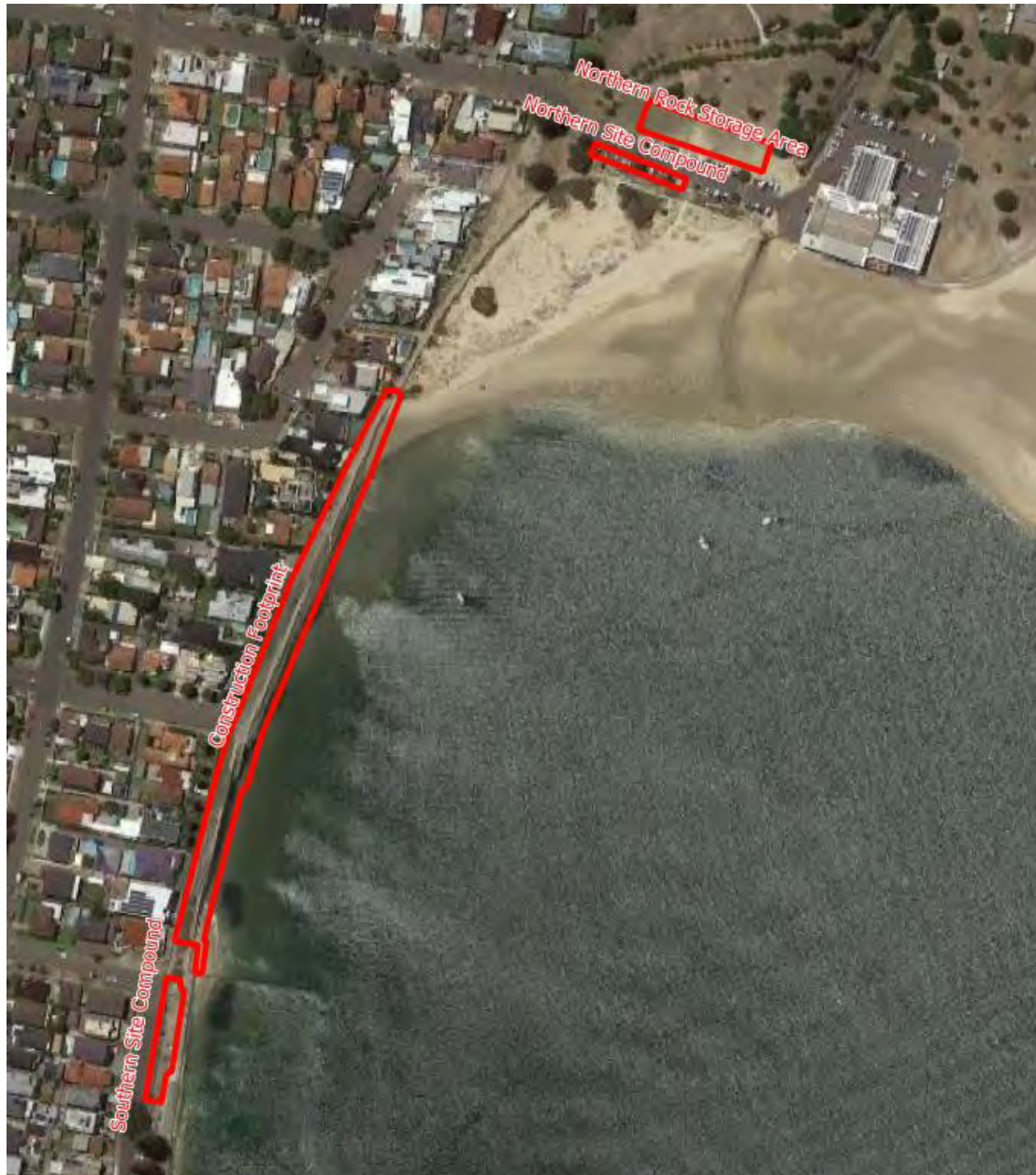


*Figure 2-2: Site work areas*

The Contractor's working areas, including any sand ramps and access pathways for rock haulage, would be fenced off and closed to the public during all construction activities. The northern end of the northern potential rock storage area contains timber bollards limiting vehicle access. However, these timber bollards could potentially be removed and reinstated if a larger area was required for material stockpiling and truck manoeuvring.

A proposed northern rock storage area is shown on **Figure 2-2**. Alternative rock storage areas can be situated within the construction footprint, including the southern site compound and the construction footprint at the eastern end of Ida Street (see **Figure 2-3**). It should be noted that additional permits (road opening permit/licence) will be required if occupying the existing roadway/parking areas.



Figure 2-3: Potential rock storage at Ida Street

The proposed northern rock storage area is approximately 15 m wide and has insufficient space for turning a large prime mover and long semi-trailer (12.5 m radius at 5km/h) (Austroads, 2013). The removal of the existing timber bollards is likely to be required for the movement of vehicles within the proposed rock storage area. Alternatively, one-way transit of trucks through the rock storage area could potentially be achieved if trucks enter via the chained accessway adjacent to the Sailing Club and then continue further west to an exit point over the mountable kerb behind the car spaces. A suitable traffic management plan should be developed by the contractor to ensure suitable access and turning area is available after rock placement.

Both proposed site compounds would enable suitable access to the proposed shared path upgrade site.

### 2.1.3 Construction Materials

The majority of the materials needed for construction would be delivered to site by truck to the Rock Storage Area north of the seawall site. This would include all geotextile fabric and rock material used for construction of the riprap apron. Other construction materials including crushed sandstone, subbase material, topsoil and turf could be stockpiled at the northern Rock Storage Area or delivered to Vanston Parade carpark. Concrete for shared path construction would likely be delivered at Vanston Parade carpark. Excess or unsuitable rock would be removed off site by truck via Sanoni Avenue.

#### 2.1.3.1 Plant and Equipment

A range of plant and equipment would be utilised on the project, including but not limited to:

- excavators for temporary stockpiling of rock, localised sand excavation, placement of rock, and reinstatement of seabed and beach levels with excavated sand;
- trucks for delivery of imported materials and for removal of excess and unsuitable rock;
- small trucks (e.g. Moxy) for transport of rock from the Rock Storage Area to the seawall site; and,
- barges and work boats if a water-based construction methodology is adopted.

### 2.1.3.2 Working Hours

Daily work will be in accordance with the Interim Construction Noise Guideline (DECC, 2009) as detailed below in **Table 2-1**.

*Table 2-1: Proposed Working Times*

| Working Days           | Working Times                                   |
|------------------------|-------------------------------------------------|
| Monday - Friday        | 7:00 am – 6:00 pm                               |
| Saturday               | 8:00 am – 1:00 pm                               |
| Sunday/Public Holidays | No work will occur on Sunday or public holidays |

No works would be completed on Sundays or public holidays. However, on occasion works may be required outside of the standard hours to optimise availability of daylight hours and suitable tide/wave conditions. Where works are proposed to take place outside of the standard hours, approval would be sought from Council and notification would be provided to local residents by Council.

The duration of works is expected to be in the order of 12 months. This will depend significantly on the Contractor's methodology, site constraints and weather conditions. It should be noted increased human traffic is expected in summer, with an increase in recreational beach users, pedestrians, cyclists, and sailors. The contractor should consider staging works at times with reduced impact to the community, such as limiting work impacting beach access and the Sailing Club (i.e. riprap placement) to periods outside of peak summer periods (December to February) where possible.

### 2.1.3.3 Restoration

At the completion of the works the site would be cleared of all surplus materials, temporary fences and the like and restored to not less than the pre-construction condition. A pre-construction dilapidation survey would be used as a basis of assessing the pre-construction condition of the site.

A post-construction dilapidation survey would be undertaken to ensure satisfactory restoration of the site. Any damage to the carpark, roads, foreshore and other site features due to the works would be remedied by the Contractor.

## 2.2 Consideration of Alternatives

A number of design options were considered as part of this project. These were reviewed in an initial options assessment conducted in October 2021 (RHDHV, 2021). The objective of this assessment was to ensure the new proposed path adjacent to the seawall would not be subject to undermining and collapse. The options assessment conducted included an assessment of the costs and benefits of design options, indicative costs, and risks. This is summarised in **Table 2-2**.

### 2.2.1 Objective of Seawall Works

The proposed riprap apron works are designed to mitigate the undermining of the existing seawall along the Sandringham foreshore, and the resultant washout of backfill from behind the seawall (refer **Figure 2-4**). These works have been recommended to be implemented prior to the proposed shared path upgrade and repair works. This will restore amenity and reduce risk to the public along an established recreation area.

The riprap apron structure acts to minimise the erosion of sand at the base of the seawall by providing a protective rock barrier to dissipate prevailing currents and wave energy. Additionally, the geotextile fabric underlayer acts to minimise transport of sediments away from the seabed below the riprap layer, and acts

as a filter to prevent the washout of backfill material underneath the seawall. The sizing of the riprap apron rock has been designed for hydraulic stability in 100 year average recurrence interval swell wave conditions.

If the proposed works are not constructed the following is likely to continue to occur during and following storm events:

- continued undermining and long term deterioration of the existing seawall foundation;
- public safety risks from the formation of voids beneath the existing footpath;
- progressive cracking and collapse of footpath sections behind the seawall; and,
- restriction of public access along the footpath during periods of repair.

A 'do-nothing' option is consequently not acceptable at the site.



*Figure 2-4: Damage to the existing footpath due to loss of backfill from behind the seawall*

## 2.3 Design Options Assessment

Table 2-2: Summary of Design Options

| Option            | Solution                                    | Benefits                                                                                                                                                                                   | Costs                                                                                                                                                                                                                     | Rate       | Comparative Direct Costs |
|-------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------|
| 1. Toe Protection | 1.1 Riprap                                  | Relatively easy to place<br>Relatively low cost<br>Absorb wave energy at base of wall and minimise scouring / undermining of wall                                                          | Tidal action and ground water discharge will likely still promote leaching of fine material from behind the seawall unless an engineered filter is constructed                                                            | \$600/m    | \$300,000                |
|                   | 1.2 Steel Sheet Pile Cut-off Wall           | Will ensure no leaching of material from behind wall, no settlement of path<br>Narrow footprint seaward                                                                                    | Difficult to construct:<br>Remove obstructions (rock)<br>Challenge to drive piles (from above, or below)<br>Potential for sheets to 'de-clutch' and allow migration of fine material from behind seawall                  | \$1,600/m  | \$800,000                |
| 2. New Seawall    | 2.1 Anchored Steel Sheet Pile Wall          | Will ensure no leaching of material from behind wall, no settlement of path<br>With good materials / durability strategy, can have long design life (50 years)<br>Narrow footprint seaward | Expensive and long construction duration<br>Potential for sub-surface obstructions<br>No public access during construction<br>Difficult to access, inspect and repair buried items<br>Appearance of steel sheet pile wall | \$16,000/m | \$8,000,000              |
|                   | 2.2 Reinforced Concrete / Gravity Structure | Will ensure no leaching of material from behind wall, no settlement of path                                                                                                                | Expensive and long construction duration<br>No public access during construction                                                                                                                                          | \$20,000/m | \$10,000,000             |



## Project related

| Option          | Solution                                                         | Benefits                                                                                                                                                          | Costs                                                                                                                                                         | Rate                            | Comparative Direct Costs |
|-----------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------|
|                 |                                                                  | With good materials / durability strategy, can have long design life (50 years)                                                                                   |                                                                                                                                                               |                                 |                          |
| 3. New Path     | 3.1 Flexible – asphaltic concrete                                | Flexible and can be easily repaired<br>Low cost<br>No specific toe protection                                                                                     | If leaching is ongoing, would require ongoing repairs (visual impact and temporary reduced public access)                                                     | \$80/m <sup>2</sup> => \$240/m  | \$120,000                |
|                 | 3.2 Semi-flexible – block paving                                 | Blocks 'lock-up' and can provide some bridging over voids.<br>Flexible and can be easily repaired<br>Low cost<br>No specific toe protection                       | If leaching is ongoing, would require ongoing repairs (visual impact and temporary reduced public access)                                                     | \$130/m <sup>2</sup> => \$390/m | \$195,000                |
|                 | 3.3 Rigid – reinforced concrete                                  | Relatively rigid and can bridge over (small) voids<br>If constructed well (jointing, curing of concrete), can have long design life<br>No specific toe protection | If significant ongoing leaching, pavement likely to fail – repairs more difficult than flexible pavements (visual impact and temporary reduced public access) | \$210/m <sup>2</sup> => \$630/m | \$315,000                |
|                 | 3.4 Suspended – reinforced concrete on piles (steel tubes / CFA) | Can fully bridge over voids created behind the seawall<br>No specific toe protection                                                                              | Relatively expensive and long construction duration<br>Limited public access during construction                                                              | \$6,000/m                       | \$3,000,000              |
| 4. New Backfill | 4.1 Engineered fill with geotextile                              | Reduce potential for leaching under seawall<br>No specific toe protection                                                                                         | Limited public access during construction                                                                                                                     | \$1,100/m                       | \$550,000                |

### 3 Statutory and Planning Framework

This section summarises the legislative requirements relevant to the Sandringham Seawall Riprap Apron Design. The requirements specified in this section have been informed by a review of relevant legislation, and government databases.

#### 3.1 Land Use and Ownership

The land parcel shown in **Figure 3-1** is Crown Land (Lot 100195026) under the management of Council. The adjacent waterway below the MHW (0.5 m AHD) is Crown Land under the direct management of Transport for NSW (TfNSW). Due to the depletion of sand in front of the seawall, the proposed riprap apron works are located on land that is now predominantly below the Mean High Water Mark (MHW) but falls within the footprint of the Council managed Crown Land (Lot 100195026). In accordance with the Local Government Act 1993, in areas with appointed land managers “a council manager is authorised to classify and manage its dedicated or reserved Crown land as if it were public land”.

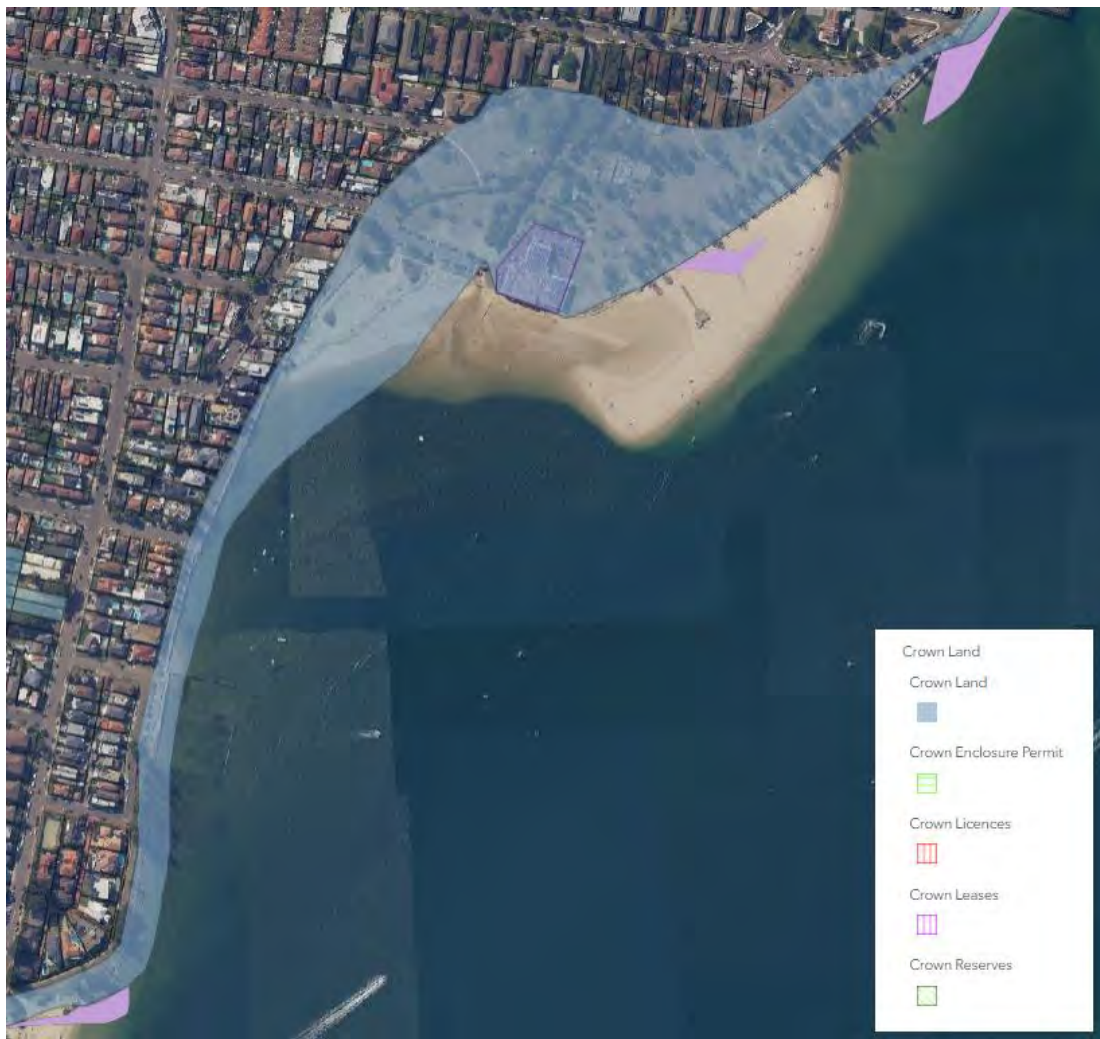


Figure 3-1: Land Ownership within Study Area

A search of the National Native Title Tribunal register of Native Title Claims did not indicate any determined native title claims at or near the sites.

### 3.2 Land Zoning

Figure 3-2 presents the Land Zoning according to the NSW Environmental Planning Instrument (EPI):

- Business (B)
- Conservation Zones (C)
- Industrial (I)
- Residential (R)
- Recreation (RE)
- Rural (RU)
- Special (SP)
- Waterways (W)

The land use for the proposed works area, including the planned site works area is zoned as RE1 (public recreational land). The surrounding waterway is zoned as W2 (Recreational waterway).

Land surrounding the project site is predominantly low density residential (R2), with areas of medium density (R3) and high density residential (R4) land to the north and east of the site.

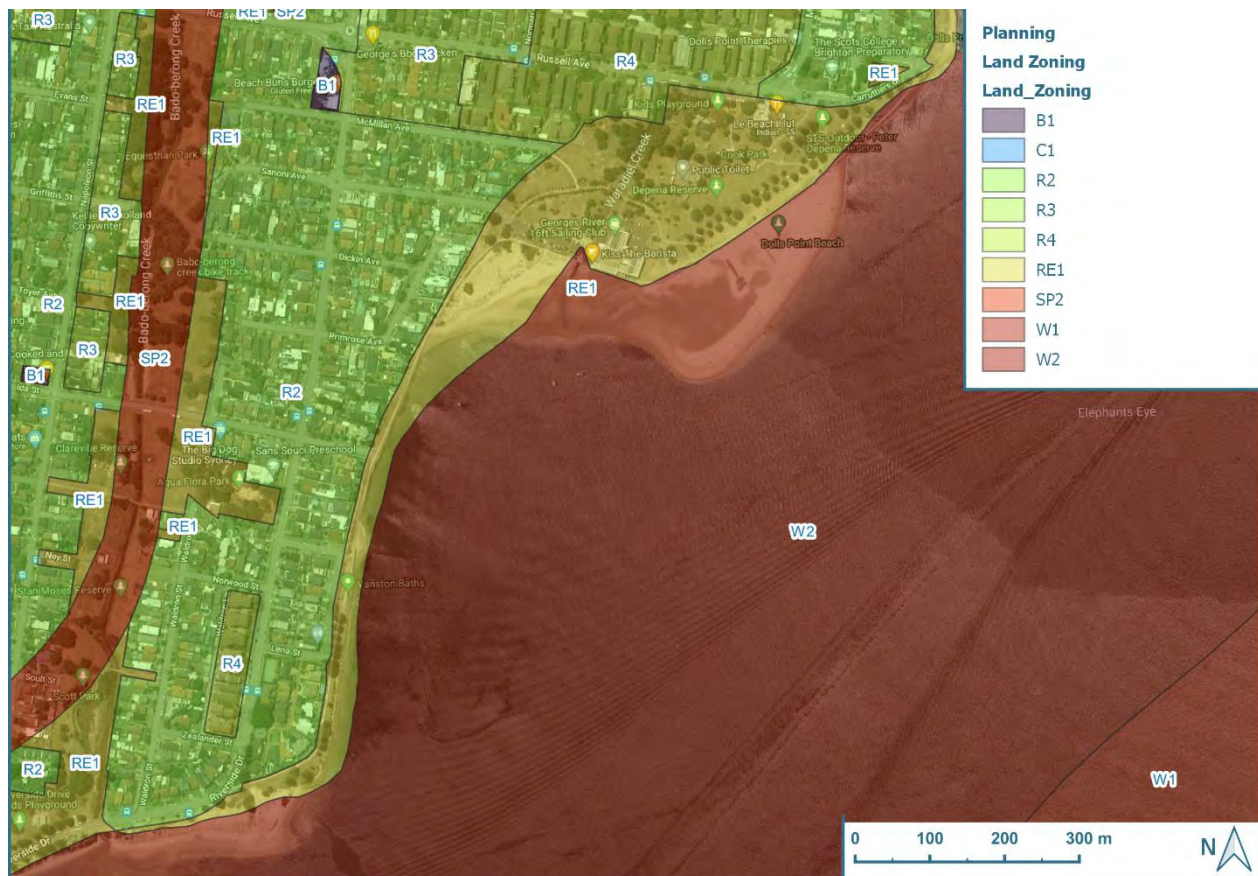


Figure 3-2: Land Zoning at Sandringham Seawall

### 3.3 NSW Planning and Approvals Process

The New South Wales (NSW) environmental planning legislative framework provides for the classification of developments, and the assessment of impacts from developments and activities. This framework comprises:

- Environmental Planning and Assessment Act (EP&A Act) 1979;
- Environmental Planning and Assessment Regulation (EP&A Regulation) 2000;
- Environmental Planning Instruments (EPIs) made under the EP&A Act (i.e. State Environmental Planning Policies (SEPPs), Regional Environmental Plans (REPs), and Local Environmental Plans (LEPs)); and
- Other planning codes, policies, guidelines and strategies that relate to any proposed development of a particular site including Development Control Plans (DCPs) and council codes and policies.

The statutory basis for planning and environmental assessment in NSW is set out in the EP&A Act 1979 and the EP&A Regulations 2000.

Part 4 of the EP&A Act sets out the development assessment requirements for those developments that require consent. Part 5 of the EP&A Act specifies the environmental impact assessment requirements for activities undertaken by or on behalf of public authorities that are permissible without development consent.

As the proposed Sandringham riprap apron works do not require development consent, they fall under Part 5 of the EP&A Act.

### **3.4 State Environmental Planning Policies**

Both the SEPP (Resilience and Hazards) 2021 and SEPP (Transport and Infrastructure) 2021 are relevant to this project. Based on the assessment of the proposed actions for this project in relation to both of these SEPPs, no development consent is required for this project.

#### **3.4.1 SEPP (Transport and Infrastructure) 2021**

SEPP (Transport and Infrastructure) 2021 updates and consolidates SEPP (Infrastructure) 2007, SEPP (Educational Establishments and Childcare Facilities) 2017, SEPP (Major Infrastructure Corridors) 2020, and SEPP (Three Ports) 2013. The proposed infrastructure upgrades for this project are addressed in Chapter 2, which aims to facilitate the effective delivery of infrastructure within NSW by public authorities. It does this by prescribing the infrastructure related works that may be undertaken without development consent, although the public authority may still be required to obtain an approval, licence or permit under another Act, such as the FM Act.

Division 25, Clause 2.164 states that “Development for the purpose of waterway or foreshore management activities may be carried out by or on behalf of a public authority without consent on any land”. ‘Waterway or foreshore management activities’ are defined as any or a combination of the following:

- (a) riparian corridor and bank management, including erosion control, bank stabilisation, resnagging, weed management, revegetation and the creation of foreshore access ways, and
- (b) instream management or dredging to rehabilitate aquatic habitat or to maintain or restore environmental flows or tidal flows for ecological purposes, and
- (c) coastal management and beach nourishment, including erosion control, dune or foreshore stabilisation works, headland management, weed management, revegetation activities and foreshore access ways, and
- (d) salt interception schemes to improve water quality in surface freshwater systems, and
- (e) installation or upgrade of waterway gauging stations for water accounting purposes.”

The riprap construction works are therefore classified as waterway or foreshore management activities and as such SEPP (Transport and Infrastructure) 2021 prevails over other environmental planning instruments with the exception of clauses 2.7, 2.8 and 2.16 of SEPP (Resilience and Hazards) 2021, which are discussed below.

The remediation of the seawall with toe protection is required to maintain the stability and public amenity of the existing Sandringham foreshore. The repair of the shared path can be considered ancillary to the repair of the Sandringham Seawall. Additionally, the shared path can be considered a foreshore access way to adjacent beaches, and Vanston Baths, and so does not require development consent.

### 3.4.2 SEPP (Resilience and Hazards) 2021

SEPP (Resilience and Hazards) 2021 updates and consolidates SEPP (Coastal Management) 2018, SEPP 33 – Hazardous and Offensive Development, and SEPP 55 – Remediation of Land into one integrated policy. These policies are now repealed.

Coastal development is addressed in Chapter 2 of the SEPP (Resilience and Hazards) 2021 and gives effect to the objectives of the *Coastal Management Act 2016* from a land use planning perspective, by specifying how development proposals are to be assessed if they fall within the coastal zone.

#### Need for Development Consent

Under clause 2.7 and 2.8 of SEPP (Resilience and Hazards) 2021, development on land identified as coastal wetlands and littoral rainforests requires development consent. Additionally, under clause 2.16, certain coastal protection works require development consent. However, the following development for the purpose of coastal protection works may be carried out on land by or on behalf of a public authority without development consent if the coastal protection works are:

- i. identified in the relevant certified coastal management program, or
- ii. beach nourishment, or
- iii. the placing of sandbags for a period of not more than 90 days, or
- iv. routine maintenance works or repairs to any existing coastal protection works

The proposed seawall works could be considered as routine works or repairs to existing coastal protection works therefore, development consent for the works is not required under SEPP (Resilience and Hazards) 2021. As such SEPP (Transport and Infrastructure) 2021 and SEPP (Resilience and Hazards) 2021 are in agreement and development consent is not required for the works.

## 3.5 Other Relevant NSW Legislation

Protection of the Environment Operations Act 1997 (POEO Act) - Activities should be carried out in a manner which does not result in the pollution of waters.

Native Title Act 1994 – No native title claims have been identified at or near the works.

Crown Lands Management Act 2016 – To undertake activities and work on Crown Land, a licence is required from the Department of Planning and Environment (DPE) – Lands (Crown Land). In accordance with the Local Government Act 1993, in areas with appointed land managers “a council manager is authorised to classify and manage its dedicated or reserved Crown land as if it were public land”. The seawall works fall within the Crown Reserve with Council as the appointed manager and so a Crown Lands Licence would not be required. The management of the land should be confirmed with crown lands by council prior to construction.

Fisheries Management (FM) Act 1994 – Permits under Part 7 of the Act are required for dredging and reclamation, temporarily or permanently obstructing fish passage, and harming marine vegetation.

- A Fisheries permit under Part 7, Section 200 of the FM Act is required for dredging/reclamation due to disturbance of the seabed as part of the rock placement and seawall works.
- A Fisheries permit under Part 7, Section 205 of the FM Act may be required for damage to marine vegetation (refer Section 5.3).
- No temporary or permanent structures (such as a weir, causeway, dam, coffer dam etc.) are proposed that could obstruct fish passage negating the need for a Section 219 permit.

National Parks & Wildlife Act 1974 - Under s86, it is an offence to harm or desecrate an Aboriginal object or place. This REF determined there are no known sites or places of Aboriginal significance nearby to the work sites. In addition, the project is not located on land reserved under the National Parks and Wildlife Act 1974.

Water Management Act 2000 – Approval is required to undertake controlled activities on waterfront land. However, the *Water Management Regulation 2011* outlines a number of exemptions for controlled activities. Where a public authority is carrying out the controlled activity on or in waterfront land, approval from the Office of Water is not required. As Council is to carry out the works, a controlled activity approval is not required.

Biodiversity Conservation (BC) Act 2016 –The assessment for this REF determined that there is not likely to be a significant effect on threatened species, populations and/or ecological communities listed in the NSW Fisheries Management Act or NSW Biodiversity Conservation Act, or their habitats from the proposed activities. Therefore, a species impact statement is not required.

Coastal Management Act 2016 (CMA) - Replaced the Coastal Protection Act 1979 and established a new strategic framework and objectives for managing coastal issues in NSW. The Act defines four distinct coastal management areas within the coast, including:

- Coastal wetlands and littoral rainforests area — areas which display the characteristics of coastal wetlands or littoral rainforests that were previously protected by SEPP 14 and SEPP 26
- Coastal vulnerability area — areas subject to coastal hazards such as coastal erosion and tidal inundation
- Coastal environment area — areas that are characterised by natural coastal features such as beaches, rock platforms, coastal lakes and lagoons and undeveloped headlands. Marine and estuarine waters are also included
- Coastal use area — land adjacent to coastal waters, estuaries and coastal lakes and lagoons.

The proposed works fall within the coastal environment area. The objectives of the coastal environment area, as defined in the CMA 2016 are:

- To protect and enhance the coastal environmental values and natural processes of coastal waters, estuaries, coastal lakes and coastal lagoons
- Enhance natural character, scenic value, biological diversity and ecosystem integrity
- To reduce threats to, and improve the resilience of, coastal waters, estuaries, coastal lakes and coastal lagoons, including in response to climate change
- To maintain and improve water quality and estuary health
- To support the social and cultural values of coastal waters, estuaries, coastal lakes and coastal lagoons
- To maintain the presence of beaches, dunes and the natural features of foreshores, taking into account the beach system

- To maintain and, where practicable, improve public access, amenity and use of beaches, foreshores, headlands and rock platforms.

The proposed works fall within the coastal use area. The objectives of the coastal use area, as defined in the CMA 2016 are:

- To protect and enhance the scenic, social and cultural values of the coast by ensuring that:
  - o the type, bulk, scale and size of development is appropriate for the location and natural scenic quality of the coast, and
  - o adverse impacts of development on cultural and built environment heritage are avoided or mitigated, and
  - o urban design, including water sensitive urban design, is supported and incorporated into development activities, and
  - o adequate public open space is provided, including for recreational activities and associated infrastructure, and
  - o the use of the surf zone is considered,
- to accommodate both urbanised and natural stretches of coastline.

It is considered that the proposed works meet the objectives of the coastal environment area and coastal use area.

Bayside Local Environmental Plan 2021 – The Bayside Local Environmental Plan (LEP) classifies the allowed use of lands within the Bayside local government area. This includes the lot containing the proposed works area (Cook Park).

This lot is listed as heritage under the Bayside Local Environmental Plan 2021 as an area of local significance.

Under Clause 5.10 of the LEP, development consent is not required if:

*“the applicant has notified the consent authority of the proposed development and the consent authority (Council) has advised the applicant in writing before any work is carried out that it is satisfied that the proposed development –*

- is of a minor nature or is for the maintenance of the heritage item, Aboriginal object, Aboriginal place of heritage significance or archaeological site or a building, work, relic, tree or place within the heritage conservation area, and*
- would not adversely affect the heritage significance of the heritage item, Aboriginal object, Aboriginal place, archaeological site or heritage conservation area.”*

The proposed works is required for maintenance of the existing seawall, and to ensure the continued safety of the shared path along the foreshore. As discussed in **Section 5.12**, the proposed works are not expected to cause any long term adverse effects on any items of heritage significance (as identified in the Cook Park CMP).

### 3.6 Commonwealth Legislation

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) requires that proposals for development or “actions” that have, will have, or are likely to have a significant impact on any matter of national environmental significance (MNES) are to be referred to the Commonwealth Environment Minister for consideration and approval.

The EPBC Act identifies the following matters of national environmental significance:

- World heritage;

- National heritage;
- Wetlands of international importance;
- Listed threatened species and communities;
- Listed migratory species;
- Protection of the environment from nuclear actions;
- Marine environment.

The proposed works would not have a significant impact on any of the above, therefore, referral to the Federal Minister for approval is not required.

### 3.7 Confirmation of Statutory Position

An assessment of the relevant statutory planning instruments has concluded that development consent is not required, and the proposal can be assessed under Part 5 of the EP&A Act by Council as the determining authority. The identified impacts in Section 5 would not significantly affect the environment and therefore an EIS is not required and the environmental assessment for stormwater and seawall development activities takes the form of this REF.

## 4 Consultation

Government agency consultation for the proposed works was undertaken by RHDHV in early 2023. This involved the submission of an information package detailing the project proposal to the following agencies:

- Crown Lands
- Transport for NSW
- Department of Primary Industries - Fisheries
- Department of Planning and Environment

The responses received from the agencies are summarised in **Table 4-1** below.

Table 4-1: Agency Responses to draft REF

| Agency      | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Actions |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Crown Lands | <p>The works are described as seawall remediation works and are proposed to address the undermining of the existing concrete seawall by erosion of the seabed at the toe of seawall. This has resulted in washout of backfill from behind the seawall, formation of voids, and subsequent settlement and failure of the existing concrete footpath. Council has previously repaired damaged footpath sections on several occasions, and some areas are currently closed off from public access due to further footpath damage and instability.</p> <p>The letter is seeking comments on matters required to be addressed in the REF, and any approval requirements under the <i>Crown Land Management Act 2016</i> (CLM Act). DPE-Crown Lands has reviewed the documentation provided and submits the following advice:</p> <p>From the documents provided, specifically Sandringham Seawall Remediation Works (PA2711 CIVIL MODEL – revision PQ4), the works appear to be entirely confined to land forming part of Reserve 500191, Public Park (Cook Park), between Vanston Parade and residential properties adjoining Primrose Ave. The reserve was gazetted 30 March 1886 for the purpose of 'Recreation'. Management of this reserve is the responsibility of Bayside Council.</p> |         |

| Agency            | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Actions                                                                                                          |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|                   | <p>If the REF confirms that all works, including site compounds, stockpiles and access requirements will be located on Reserve 500191 and it demonstrates that the proposed works are consistent with the reserve purpose of 'Recreation' then no other form of authorisation or tenure is required under the CLM Act 2016.</p> <p>All activities relating to the use of Crown land must be consistent with the Commonwealth Native Title Act 1993 (NT Act). From the department's preliminary investigation, a native title determination does not apply and the site is not under an outstanding native title claim, and a registered Indigenous Land Use Agreement (ILUA) does not apply. This being the case, the proposed works will need to be validated under the 'future acts regime' under the NT Act. Council's Native Title Manager should be consulted for advice. The REF should demonstrate how the proposed works are consistent with the NT Act.</p> <p>The REF should demonstrate that the proposed works are consistent with objects and principles of the CLM Act.</p> <p>The REF should demonstrate that the proposed works are consistent with the Crown reserve purpose of 'recreation'. This should include an examination of the impact of the works on access, safety and amenity over the design life of the works.</p> <p>The REF should demonstrate that the proposed works are consistent with the most recent valid Plan of Management (PoM) under the CLM Act. If no PoM is available Council is encouraged to prepare a PoM that applies to Reserve 50091.</p> <p>The REF should demonstrate that the works meet contemporary design standards for the conditions expected to occur over the design life of the structure. Adaptive design should be considered to allow for any future changes over the design life of the works e.g. sea level rise. It is noted that the works are remediation and not a complete reconstruction.</p> <p>The REF should demonstrate the alignment with or otherwise justify the proposed works with respect to any related Coastal Zone Management Plan or Coastal Management Program that applies to the land;</p> <p>The REF should discuss approval pathways and other permits and licenses which may be required, this may include any authorisations required for construction. It is noted that the potential use of barge mounted equipment is mentioned in the letter and Transport for NSW manage Port Botany which adjoins Reserve 500191 and part of the beach near the Georges River Sailing Club. This area is also subject to incomplete ALC 12821 under the Aboriginal Land Rights Act 1984. Consultation with other agencies should occur as appropriate.</p> <p>DPE-Crown Lands welcomes the opportunity to review the final REF once completed. Should you have any queries in regard to this or would like to discuss further please do not hesitate to contact me.</p> |                                                                                                                  |
| Transport for NSW | <p>From an operational aspect and the impact to navigation, the only request I have is that any on water activity be advised to us prior to works commencing. We would normally meet with the marine contractors to discuss the scope of works, vessels to be used and crewing requirements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Inform TfNSW prior to works commencing and allow TfNSW to discuss the scope of works with the contractor.</p> |

| Agency                                       | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Actions                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Department of Primary Industries - Fisheries | <p>DPI Fisheries is responsible for ensuring that fish stocks are conserved and that there is no net loss of key fish habitats upon which they depend. To achieve this, DPI Fisheries ensures that developments comply with the requirements of the <i>Fisheries Management Act 1994</i> (FM Act) (namely the aquatic habitat protection and threatened species conservation provisions in Parts 7 and 7A of the Act, respectively), and the associated <i>Policy and Guidelines for Fish Habitat Conservation and Management (2013)</i>. DPI Fisheries is also responsible for ensuring the sustainable management of commercial, recreational and Aboriginal cultural fishing, aquaculture, marine parks and aquatic reserves within NSW.</p> <p>The following approvals would most likely be required from DPI Fisheries for the proposed seawall remediation and shared path upgrade works:</p> <ul style="list-style-type: none"> <li>• A section 200 permit (dredging and reclamation) will be required under Part 7 of the FM Act before works commence.</li> <li>• A section 205 permit under Part 7 of the FM Act is required if any marine vegetation i.e. seagrass will be impacted by the proposed works.</li> </ul> <p>General information requirements that may be of assistance in the preparation of an REF for this proposal are listed below in Attachment 1. Some of the requirements listed may not be relevant to the proposed works so please use your discretion to address only the relevant requirements.</p> <p>You can also find this information in Section 3.3.1 of the <i>Policy and Guidelines for Fish Habitat Conservation and Management</i>, which can be found online at <a href="https://www.dpi.nsw.gov.au/fishing/habitat/publications/pubs/fish-habitat-conservation">https://www.dpi.nsw.gov.au/fishing/habitat/publications/pubs/fish-habitat-conservation</a>.</p> <p>If you require any further information or would like to discuss via video conferencing, please contact me on <a href="mailto:jess.hyland@dpi.nsw.gov.au">jess.hyland@dpi.nsw.gov.au</a> and we can set up a time to discuss.</p> | <p>Apply for the following permits with suitable time for processing prior to the commencement of works:</p> <p>A section 200 permit (dredging and reclamation) will be required under Part 7 of the FM Act before works commence.</p> <p>A section 205 permit under Part 7 of the FM Act is required if any marine vegetation (i.e. seagrass) will be impacted by the proposed works.</p> |
| Department of Planning and Environment       | <p>DPE EHG provides coastal management services to local government with technical assistance to develop Coastal Management Programs and grant funding under the Coastal and Estuary Grants Program for eligible actions identified in certified CMPs.</p> <p>The State Environmental Planning Policy (Resilience and Hazards) 2021 commenced in March 2022 and includes in Chapter 2 the coastal planning provisions of the former SEPP (Coastal Management) 2018. The SEPP sets out development controls for consent authorities to apply to the coastal management areas of the coastal zone which can be accessed by the ePlanning Spatial Viewer here Resilience and Hazards SEPP (Chapter 2 – Coastal Management) - (<a href="https://www.nsw.gov.au">nsw.gov.au</a>)</p> <p>The viewer shows the extent of the Coastal Environment Area Map and Coastal Use Area Map applicable to Sandringham Bay. Note the development controls of the CEAM prevail over the CUAM where they overlap.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | None                                                                                                                                                                                                                                                                                                                                                                                       |

Bayside Council will be responsible for undertaking a community consultation utilising the Have Your Say Platform online platform.

## 5 Description of Existing Environment and Impact Assessment

This section considers the existing conditions in the study area and the potential impacts for those environmental sensitivities considered. Mitigation and control measures are summarised in **Section 6**.

### 5.1 Sediment Characteristics

#### 5.1.1 Existing environment

##### 5.1.1.1 Sediment Properties

A review of available online geological data was conducted for Sandringham, including:

- eSPADE v2.1 (accessed via [eSPADE v2.1 \(nsw.gov.au\)](https://eSPADE.v2.1.nsw.gov.au)) geospatial mapping resource, and
- MinView geological mapping (accessed via [MinView | Regional NSW | Mining, Exploration and Geoscience](#)).

This review indicates that the site is underlain by Quaternary (Holocene) tidal delta flats, comprising marine deposited fine to medium grained, lithic-carbonate-quartz sand, silt, clay and shell material. The sediment deposits are underlain by Hawkesbury Sandstone, comprising medium- to coarse-grained quartz sandstone with minor shale and laminite lenses.

A previous geotechnical site investigation conducted at Sandringham Seawall by Public Works Advisory, 2020, completing a series of hand augurs and Dynamic Cone Penetrometer (DCP) tests within the study area. This investigation found loose to medium dense coastal beach deposits at the toe of the seawall, comprising yellow-brown, poorly graded, fine to medium grained sand, with trace of silt and sand sized shell fragments. Sediment was noted to transition from brown to light grey and grey at 0.4 – 0.5 m.

No site-specific sediment investigation was conducted as part of the REF. No specific geotechnical investigations have been identified behind the seawall.

##### 5.1.1.2 Contamination

A search of the NSW EPA's Contaminated Land Record (accessed via <https://apps.epa.nsw.gov.au/prclmapp/searchregister.aspx>) did not present any contaminated sited in the study area.

Contaminated sites within the 2 km of the site include;

- Kendall Street Reserve (Lawson Street and Kendall Street)
- Former 7-Eleven Ramsgate (368 Rocky Point Road)
- BP Sans Souci (520 Rocky Point Road)

No specific contamination desktop or intrusive investigations were available for the study area. Due to the dynamic nature of the sediments, and location relative within Botany Bay, is not expected significant contamination will be found in the surficial layers of sediment within the construction footprint.

No contamination was identified for areas within the shared path footprint, however available soil landscape mapping (accessed via [eSPADE v2.2 \(nsw.gov.au\)](https://eSPADE.v2.2.nsw.gov.au)) Identifies the works area is underlain by disturbed terrain (fill). Additional testing will be required to assess the contamination of any materials to be exported from site during construction of the new shared path. Additionally, due to the variable nature of fill, the ground conditions across the site may be highly variable.

### 5.1.1.3 Acid Sulfate Soil Risk

Acid sulfate soil mapping for Sandringham is presented in the NSW Soil and Land Information System (SALIS). This is mapped in eSPADE v2.1 and has been summarised in a previous geotechnical investigation by Public Works Advisory in 2020.

The published acid sulfate risk mapping (refer **Figure 5-1**) indicates marine sediments have a high probability of occurrence of acid sulfate material for bottom sediments. The occurrence of acid sulfate soils can be irregular and localised and at the location of the seawall may be buried by windblown sediments, alluvium or fill.

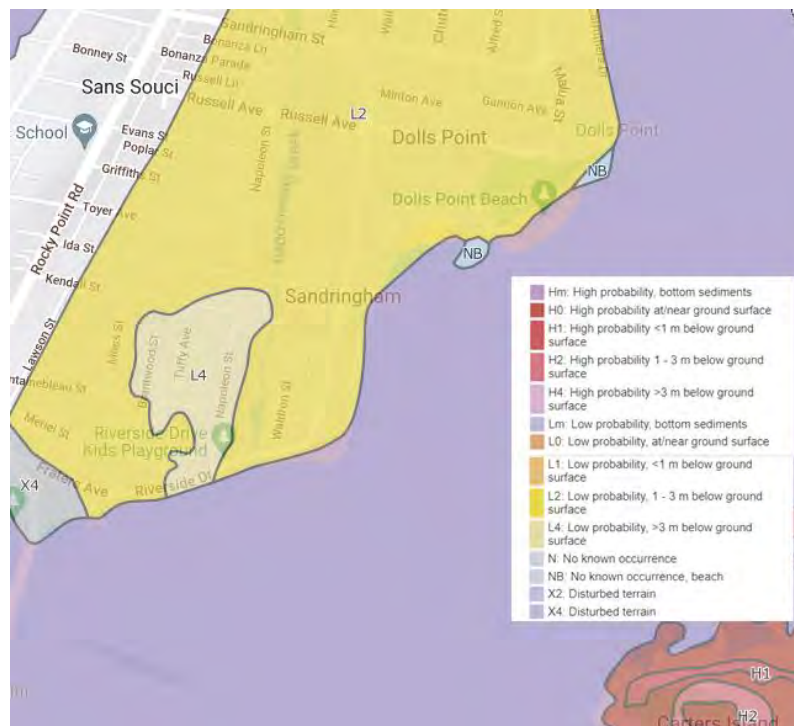


Figure 5-1: Acid Sulfate Soils Risk (SALIS, 2021)

### 5.1.2 Potential impacts during construction and operation

The soils that will be disturbed during the riprap construction works are expected to be predominantly uncontaminated natural material, in addition to minor fill layers disturbed within the site rock storage area, also not likely to be contaminated. There is the potential for excavation to uncover unknown buried contaminated material, particularly contaminants discrete in nature.

Excavation of existing material at the southern and northern extents of the proposed riprap structure should be used for nourishment of the structure once constructed. Potential ASS can pose a risk to marine environments if disturbed, specifically by activities such as excavation. Due to the minimal sediment excavation expected associated with the proposed placement of the riprap apron, and the highly mobile nature of surficial marine sediments, impacts associated with ASS are considered unlikely.

Material behind the seawall is not expected to present significant ASS. Limited information is available regarding the origin of material within this area, and previous earthworks. Suitable geotechnical investigations should be conducted to assess the existing ground conditions underlying the proposed paved areas.

### 5.1.3 Recommended Control Measures

The proposed mitigation measures for management of sediment quality are provided in **Table 5-1**.

*Table 5-1: Mitigation Measures for the management of Sediment Quality*

| #  | Sediment Quality Mitigation Measures                                                                                                                                                                                                                                              |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Soil and rock recovered during the works should be reused on-site where possible.                                                                                                                                                                                                 |
| 2. | Any excess excavated beach sands should remain part of the active beach system.                                                                                                                                                                                                   |
| 3. | An Unexpected Finds Procedure (UFP) should be prepared and incorporated into the Construction Environmental Management Plan (CEMP) to facilitate effective management of contaminated material found during exaction works, including notifying the council for suggested action. |
| 4. | If ASS is identified during excavation of subsurface materials, an Acid Sulfate Soil Management Plan (ASSMP) should be prepared to avoid environmental degradation if soils which are to be disturbed are found to contain actual or potential ASS.                               |
| 5. | All temporary stockpiles, including site-won or imported material should be protected with diversion drains, silt fences and straw bales to prevent soil loss.                                                                                                                    |
| 6. | Tracking of sediment from the construction site via construction equipment onto the roads should be minimised by cleaning of any machinery in a designated washdown area.                                                                                                         |
| 7. | Suitable geotechnical and sediment quality investigations should be conducted prior to construction of the new proposed shared path.                                                                                                                                              |

## 5.2 Coastal Processes

### 5.2.1 Existing environment

#### 5.2.1.1 Tides and currents

The water levels at the Sandringham Bay foreshore are generated by both the tidal and swell conditions within Botany Bay. Tides within Botany Bay are semi-diurnal (two high tides and two low tides daily). Tidal water level data nearest to site within the Sydney Harbour has been obtained, represented by tidal planes at the Fort Denison tide gauge, and are summarised in **Table 5-2**.

Table 5-2: Tide levels (obtained November 2021)

| Description               | Abbreviation | Water Level (m AHD) |
|---------------------------|--------------|---------------------|
| Highest Astronomical Tide | HAT          | 1.1                 |
| Mean High Water Springs   | MHWS         | 0.6                 |
| Mean High Water           | MHW          | 0.5                 |
| Mean High Water Neaps     | MHWN         | 0.4                 |
| Mean Sea Level            | MSL          | 0.0                 |
| Mean Low Water Neaps      | MLWN         | -0.4                |
| Mean Low Water            | MLW          | -0.54               |
| Mean Low Water Springs    | MLWS         | -0.6                |
| Lowest Astronomical Tide  | LAT          | -1.0                |

Note: AHD is approximately equal to Mean Sea Level.

Currents within Botany are generated by flows from tides, river currents and winds (URS, 2013). During low rainfall periods, current in the Bay are dominated by tidal flows to and from the Georges River. Sandringham is located at the mouth of the Georges River into Botany Bay. Limited data is available on the tidal flow velocities at this location.

#### 5.2.1.2 Sediment Transport

A previously conducted marine ecology assessment (Worley Parsons, 2012) noted net sediment transport at the Sandringham Seawall was generally bidirectional, with sediment transported northward across Lady Robinsons Beach, and southwards towards the Georges River.



*Figure 5-2: Changes in beach sediment at Sandringham Seawall*

Available aerial imagery of the study area from 2001 to 2018 is shown in **Figure 5-2**. The imagery shows depletion of sediment from in front of the existing seawall over time, with some sediment accreting to the north of the seawall.

The existing coastal structures (existing seawall and revetment, Vanston Baths, and the existing Vanston Parade groyne), impact the sediment transport processes along this section of coast. The accretion of sediment at the groyne relative to the surrounding areas is visible in **Figure 5-2**.

### 5.2.2 Potential impacts during construction and operation

It is assumed that since the construction will not require the removal of significant volumes of sediment, the construction of the proposed structure is unlikely to significantly impact sediment transport or other coastal processes along the developed foreshore. Minor sediment disturbance is expected when tying in the end of the riprap structure, no excavation is required. The operational impact of the proposed riprap structure is expected to reduce erosion from behind the existing seawall but is not expected to significantly alter longshore sediment transport or tidal flows.

No control measures are required to manage coastal processes.

## **5.3 Ecology (flora and fauna)**

### **5.3.1 Existing environment**

#### **5.3.1.1 Flora and Fauna**

##### **Seagrass**

Several marine ecology surveys have been conducted across the study area in previous decades, including in 1998, 2009, 2019 and 2022. The data shows consistent movement of the location of seagrass beds, generally comprising *Zostera* (seagrass), across the study area. Recent mapping was conducted in August 2022 by Seadragon Diving Co. on behalf of Bayside City Council (see **Figure 5-4**). This provided updated seagrass mapping within 30 m of the Sandringham seawall between Dolls Point Beach and Vanston Baths. This survey supersedes previous seagrass mapping from DPI in 2019.

Based on the 2022 marine ecology survey, there is no existing seagrass within the construction footprint. The survey noted the majority of the habitat within the work impact zone is comprised of sandy silt substrate with very low amounts of marine flora and fauna. The reduction in seagrass area since previous seagrass surveys is possibly due to significant and frequent rainfall events in 2022, leading to extended periods of high turbidity surrounding the study area. A site walkover conducted by RHDHV in May 2022 identified no seagrass within the proposed construction footprint, however visibility was reduced due to significant rainfall events in Sydney resulting in elevated turbidity in the study area.

Prior to construction, if seagrass is observed to be expanding within the construction footprint, Council will be required to assess the extent of impact and submit a permit to harm marine vegetation in accordance with the *Fisheries Management Act 1994* and the Fisheries Management (General) Regulation 2010. However, on the basis of the August 2022 marine ecology survey this is not required.

##### **Rocky Foreshore**

The rocky area directly in front of the seawall comprises a rocky foreshore habitat (see **Figure 5-4**). This habitat consists mainly of Cunjevoi and Oyster reef formed on the existing toe protection for the seawall (see **Figure 5-3**).

Where possible, the existing rubble containing oyster growth should be reused to minimise impacts to oyster growth along the foreshore.



*Figure 5-3: Rocky foreshore habitat along toe of seawall*

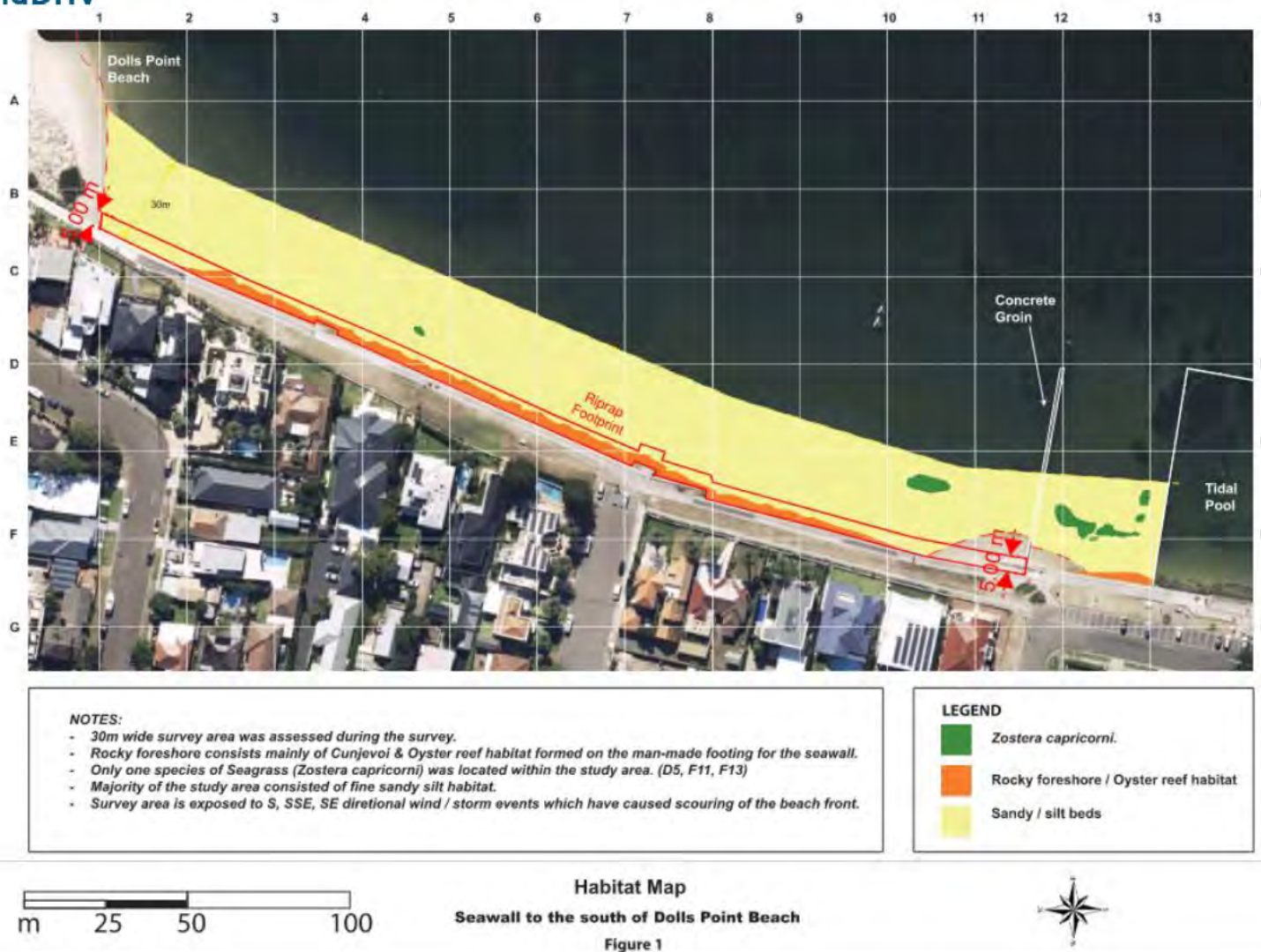


Figure 5-4: Marine ecology survey 2022 (Modified from Seadragon Diving Co., 2022)

### Marine Fauna

An updated review of the DAWE protected matters search (see **Appendix C**) tool identified a large number of threatened species, including fish, reptiles and marine mammals, inhabiting areas surrounding Botany Bay and the Georges River. This search included areas of Botany Bay, wetlands and Georges River estuary.

Due to the limited scale of the works conducted, the low likelihood of significant turbidity impacts, and the environment along the existing Sandringham foreshore, the impact to marine fauna is considered minimal. Given the relatively slow movement of the placement machinery during riprap placement operations, any marine fauna should have sufficient time to mobilise to a suitable nearby habitat. Additionally, due to the shallow conditions and lack of seagrass within the construction footprint, it's unlikely any large marine species would mobilise into the construction area.

A marine survey conducted on behalf of council in 2022 (refer to **Appendix B**) did not identify any marine fauna surrounding the study area and found no seagrass within construction footprint. The study noted seagrass and marine structures (Vanston Baths) south of the works zone may provide habitat for the endangered White's Seahorse (*Hippocampus whitei*), however this habitat area is unlikely to be impacted by the proposed works.

White's Seahorse is a threatened species of syngathid, endemic to the east coast of Australia. It's natural habitats are sponge gardens, seagrass meadows and soft corals. It is also known to use artificial habitats such as protective swimming net enclosures and jetty pylons (e.g. Vanston Baths nets).

### Threatened Species and Communities

Records of threatened species, populations and endangered ecological communities have been obtained from a desktop review of databases, sightings data and known habitat descriptions and distributions for the locality. The following databases were searched:

- NSW Department of Planning and Environment (DPE) **BioNet Atlas (10 km radius)**  
(Accessed via <https://www.environment.nsw.gov.au/atlaspublicapp/>)
- Australian Government Department of Agriculture, Water and the Environment (DAWE) **Protected Matters Search Tool** (Accessed via <https://pmst.awe.gov.au/>)
- NSW Department of Primary Industry (DPI) **Threatened Species lists**  
(Accessed via <https://www.dpi.nsw.gov.au/fishing/threatened-species/what-current>)

### BioNet Atlas (10 km radius)

A search of the BioNet Atlas was undertaken, centred on the site and comprising the minimum 10km x 10km. This search returned 1,519 species sighted within the search area. This comprised 25 endangered species, including 3 critically endangered species. These populations have not been observed nearby or within the study area and as such are not expected to be impacted by the proposed works. No endangered species were identified within 100m of the site. No protected species were identified within the construction footprint; however several protected species have been identified in the surrounding areas.

The species sighted within a 50m radius of the site and northern rock storage area have been summarised in **Table 5-3** and shown in **Figure 5-5**. An updated list of all BioNet sightings within a 10km radius is provided in **Appendix D**.

Table 5-3: Protected species noted within 50 m of the construction site

| Species                | Dates       | Category  | Number |
|------------------------|-------------|-----------|--------|
| Silver Gull            | 1991 - 2016 | Protected | 4      |
| Caspian Tern           | 2007        | Protected | 1      |
| Pacific Black Duck     | 2016        | Protected | 1      |
| Eastern Blue Tongue    | 2017/18     | Protected | 2      |
| Australian Raven       | 2017        | Protected | 1      |
| Laughing Kookaburra    | 2015        | Protected | 2      |
| Little Black Cormorant | 2009        | Protected | 2      |

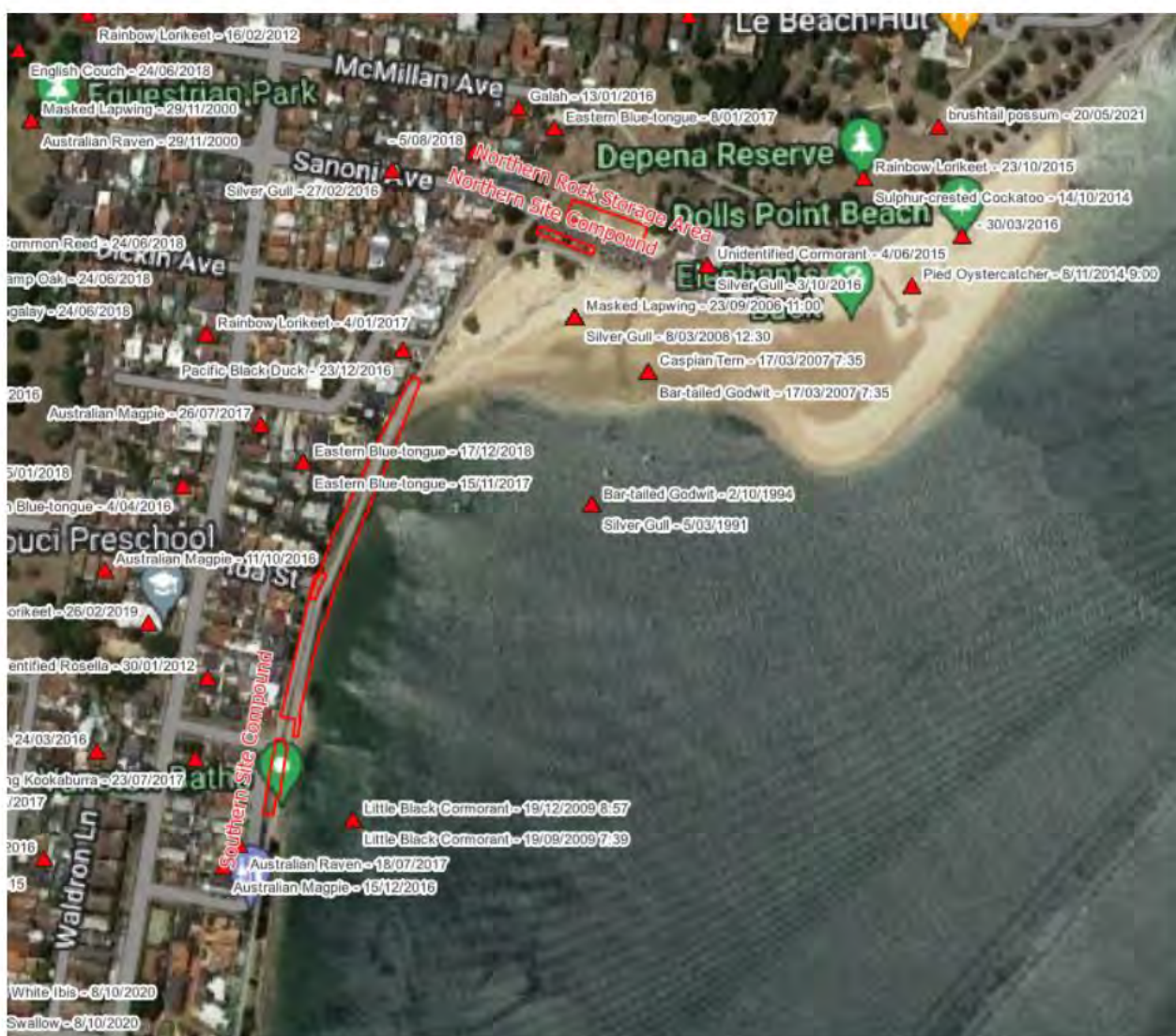


Figure 5-5: BioNet sightings surrounding the works area

### **Protected Matters Search Tool**

A review of data from the protected matters search tool identified 109 listed threatened species and 82 migratory species within the search area (including a 10km buffer surrounding the works site). A list of these can be seen in **Appendix C**.

The species identified comprise migratory bird species, fish, reptiles, marine and terrestrial mammals, amphibians, sharks and plants. For the vast majority of these species, the proposed works will not overlap or impact their habitats. The shallow rock placement works in the marine environment is not expected to adversely impact any seagrass habitats and is in too shallow a marine environment to overly marine megafauna habitats. Terrestrial works are within developed public parkland and are unlikely to encounter endangered terrestrial mammals or plants.

### **Towra Point Aquatic Reserve**

The proposed site is approximately 500 m from the Towra Point Aquatic Reserve (refer **Figure 5-6**). This is classified as a category IV habitat. The aims of these management areas are:

- To protect vegetation patterns or other biological features through traditional management approaches;
- To protect fragments of habitats as components of landscape or seascape-scale conservation strategies;
- To develop public education and appreciation of the species and/or habitats concerned;
- To provide a means by which the urban residents may obtain regular contact with nature.

The proposed works are not expected to impact this wetland area.



*Figure 5-6: Protected Matters surrounding the site*

### Stockpiling Areas

The vegetated land within the proposed northern rock storage area (i.e. Depena Reserve) is dominated by short grasses (refer **Figure 5-7**). Some fringing trees exist beyond the timber bollards, which would be protected and avoided by material haulage routes and stockpiles.

Placement of stockpiled material at the Vanston Parade carpark (i.e. southern site compound, refer **Figure 5-8**) and delivery of material at the end of Ida Street (refer **Figure 5-9**) is not expected to have any significant ecological impacts. Both sites comprise foreshore reserve with short grasses and either asphalt pavement or paved areas.



*Figure 5-7: View of proposed rock storage area, looking north-east from carpark (Source: Google Street View, April 2021)*



*Figure 5-8: View of proposed southern site compound area at Vanston Parade carpark (Source: Google Street View, February 2022)*



Figure 5-9: View of foreshore reserve from end of Ida Street (Source: Google Street View, February 2022)

### 5.3.2 Potential impacts during construction and operation

As noted above, the most recent marine ecology survey, conducted in August 2022, did not identify any impacted marine vegetation within the construction footprint. Based on this assessment, Council will not need to apply for a permit to harm marine vegetation.

The marine survey identified several *Zostera* beds within 30 m of the construction footprint. These seagrass beds are outside the construction footprint and are not expected to be significantly impacted by construction. If vessel support is required for the proposed work, approved mooring plans should be provided by the contractor to include exclusion / buffer zones around seagrass bed locations. Due to shallow water at the site, the contractors mooring plans should include a statement relating to proposed propeller wash management to reduce siltation and impacts to seagrass in these areas.

Additionally, Vanston Baths were identified as a potential habitat for White's Seahorse. Works are not expected to significantly impact these areas, however if any impact to Vanston Baths structures or netting is identified, an ecological survey should be conducted to confirm the presence of White's Seahorse along the structure and mitigate impacts.

As discussed in **Section 5.3.1**, impacts to threatened species and other ecological communities common to the Sydney coastline and of known occurrence on and nearby the site are considered unlikely during the proposed works. Regardless, the following potential ecological impacts should be considered:

- Potential release of toxicants from embankment soils. However, no historical contaminating activities or contaminated sites have been identified in this REF and sediment disturbance and suspension is expected to be minimal.

- Potential release of toxicants (i.e. fuel, coolant, lubricants, and hydraulic fluids) from plant leaks and spills.
- Noise and vibration disturbance from construction.
- Interference with native faunal species such as migratory birds during works.
- Release of potential toxicants from landside earthworks associated with the shared path.
- Removal of vegetation during the construction of the shared path.

The proposed mitigation measures for management of ecology are provided in **Table 5-4**.

*Table 5-4: Mitigation Measures for the Management of Ecology*

| #  | Ecology Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | An effective spill and leakage procedure should be implemented with control measures listed in <b>Section 5.4</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2  | An inspection of seagrass within 20 m of the construction footprint should be conducted prior to construction of the riprap apron structure with sufficient time allowed for prior to construction commencing for the application of a Fisheries Permit if required. This should be conducted in accordance with the NSW Maritime Marine Habitat Survey Guidelines (NSW Maritime 2010).                                                                                                                                                                                                                                                                                                            |
| 3  | Loud and abrasive works below the MHWL should be minimised where possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4  | Contractor should cease work activities and notify Council if fauna species are observed to persistently occupy areas in the immediate vicinity of work zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5  | If native fauna is injured, immediate contact should be made with a wildlife rescue service or a veterinary surgeon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6  | If any plants are disturbed from the works (i.e. in the rock storage area), revegetation of the site should use only local native plant species, preferably grown from local stock. If possible, plants that are in areas that are to be excavated or accessed shall be carefully dug up and appropriately stored for replanting after construction work.                                                                                                                                                                                                                                                                                                                                          |
| 7  | Workers should be informed of their obligations and possible offences under the Fisheries Management Act, NSW National Parks and Wildlife Act and Australian Environmental Protection and Biodiversity Conservation Act with respect to protected marine vegetation and threatened and migratory species.                                                                                                                                                                                                                                                                                                                                                                                          |
| 8  | When revegetating sites, the following plants shall not be used and shall be controlled in according to a weed management plan for the sites: <ul style="list-style-type: none"> <li>- Plant species listed as weeds by NSW Department of Primary Industries (<a href="http://www.dpi.nsw.gov.au/agriculture/pests-weeds/weeds/profiles">http://www.dpi.nsw.gov.au/agriculture/pests-weeds/weeds/profiles</a>)</li> <li>- Plant species listed as part of key threatening processes (<a href="http://www.environment.nsw.gov.au/threatenedspecies/KeyThreateningProcessesByDoctype.html">http://www.environment.nsw.gov.au/threatenedspecies/KeyThreateningProcessesByDoctype.html</a>)</li> </ul> |
| 9  | Suitable erosion controls must be implemented prior to earthworks for the shared path to prevent increased sediment loading into Botany Bay.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 10 | If vessel support is required for the proposed work, approved mooring plans should be provided by the contractor to include exclusion / buffer zones around seagrass bed locations. Due to shallow water at the site, the contractors mooring plans should include statement relating to proposed propeller wash management to reduce siltation and impacts to seagrass in these areas.                                                                                                                                                                                                                                                                                                            |
| 11 | All rock containing oysters removed during the works should be stockpiled appropriately (in a marine environment within the construction footprint) and reused on-site where possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 5.4 Water Quality

### 5.4.1 Existing environment

The study area is situated at the entrance of Georges River into Botany Bay. This estuarine environment in this area is commonly used for swimming, including the Sandringham Baths. Pollutants from Georges River entering the Lower Georges River Estuary are flushed by the tidal movements from Botany Bay. Publications on Georges Riverkeeper (Safe swimming in the Georges River, 2022) notes impacts from runoff and sewage spills periodically impacting water quality within this area.

Water quality within Botany Bay has been reduced by the runoff from the increased rainfall in early 2022. As of April 2022, water quality reported by the NSW Department of Environment and Heritage (Sydney beaches weekly star ratings, 2022), noted good water quality, with Enterococci levels <41 per 100ml.

### 5.4.2 Potential impacts during construction and operation

Potential direct impacts to water quality from the works could include:

- turbidity at the riprap construction site
- management of spills.

The placement of rock during construction may cause a short term and minor increase in turbidity surrounding the construction area. Impacts are likely to be minimal in nature due to the relatively high settling velocity of beach sediments. Mitigation measures for the management of potential spills are provided in **Table 5-5**.

Table 5-5: Water Quality Mitigation Measures

| #  | Water Quality Mitigation Measures                                                                                                                                                                                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Sediment controls should be installed surrounding imported rock stockpiles, soil stockpiles, and any earthworks.                                                                                                                                                                           |
| 2. | Daily visual inspections should be undertaken by the Contractor for turbidity and settlement of sand surrounding construction                                                                                                                                                              |
| 3. | Industry standards and pollution prevention regulations should be adhered to during refuelling, transfer, storage and handling of hazardous materials.                                                                                                                                     |
| 4. | Contractor should ensure that all plant is maintained in good working order with regular servicing.                                                                                                                                                                                        |
| 5. | No major maintenance of equipment should be undertaken on-site.                                                                                                                                                                                                                            |
| 6. | Weather and tide forecasts should be checked regularly during construction. Where flooding or inundation is forecast to any work area, all equipment and materials should be removed from the landside construction zone or appropriately secured above expected flood levels in the area. |
| 7. | Any machinery working adjacent to the seawall should carry a full spill containment kit including hydrocarbon booms to reduce the impact of any spill.                                                                                                                                     |
| 8. | All machinery should be routinely checked for leaks, with an emergency spill kit to be kept on site at all times. All staff are to be made aware of the location of the spill kit and trained in its use.                                                                                  |
| 9. | Appropriate site and project inductions/training detailing potential water quality impacts and relevant construction measures and spill and emergency response procedures should be used.                                                                                                  |

## 5.5 Air Quality

### 5.5.1 Existing environment

Existing air quality at the site is presumed to have low levels of pollutants, such as particulate matter and Oxides. A Regional Air Quality Index, calculated by DPE, at the nearest locations (Earlwood and Chullora) is generally rated as 'Good' or 'Very Good'.

The main sources of air pollution at Sandringham come from the use of vehicles on nearby roads, vessels, Sydney Airport and berthed ships at Port Botany. There are no major sources of local air pollution surrounding the proposed works. The most likely sources of pollution are from road vehicles and powered watercraft.

### 5.5.2 Potential impacts during construction and operation

Smoke and fumes from operational equipment may impact on nearby recreational vessels, residents, and sensitive receivers.

The proposed mitigation measures for management of air quality are provided in **Table 5-6**.

*Table 5-6: Mitigation Measures for the Control of Air Quality*

| #  | Air Quality Mitigation Measures                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | The contractor should maintain their machinery in accordance with NSW EPA guidance and implement minimum performance indicators specified during planning.                                                              |
| 2. | All plant used by the Contractor should be in good operating condition and free of excessive emissions.                                                                                                                 |
| 3. | All plant, equipment and vehicles should not idle for extended periods of time; they should be switched off if not in operation.                                                                                        |
| 4. | Weather and tide forecasts should be checked regularly during construction. Works should not be carried out during strong winds or in weather conditions where high levels of dust or airborne particulates are likely. |
| 5. | Uncovered or stockpiled materials that may lead to the generation of dust or windblown sand should be covered or watered down.                                                                                          |
| 6. | Public roads and sealed areas should be kept free of soil/dust through sweeping.                                                                                                                                        |

## 5.6 Noise and Vibration

### 5.6.1 Existing environment

The acoustic environment surrounding the site is influenced by road traffic, recreational users, and ocean waves. The closest sensitive receivers to construction noise and vibration relevant to the proposed works are:

- the low, medium and high density residential areas surrounding the site;
- users of the Georges River Sailing Club;
- commercial facilities, schools and preschools;
- pedestrians and recreational users of the surrounding parkland, carpark, beaches, walkway and Vanston Baths;
- recreational users of the adjacent waterway; and,

- ecological communities.

The RMS Noise and Vibration Guide (2016) suggests background noise levels within suburban to urban areas during the day (0700 – 1800) is approximately 45 decibels. Within the study area, this is likely increased due to low frequency noise emitted from the nearby airport, and low frequency noise from Port Botany.

The NSW EPA suggests the following criterion for activities of this type in its Environmental Noise Control Manual, commonly called Construction Site Noise Guidelines:

- for construction periods less than 26 weeks in duration, the LA10 level of the operation, when measured at the boundary of the nearest affected residence, should not exceed the background noise level (LA90) by more than 10 dBA;
- this applies only Monday to Friday, 7:00 am to 6:00 pm and between 7:00 am and 1:00 pm on Saturdays; and,
- at all other times, and for construction periods of more than 26 weeks duration, the LA10 must be no more than the LA90 plus 5 dBA.

It is expected site plant will be limited to rock and soil delivery vehicles, small (5 – 12 t) excavators, and associated small scale compaction equipment for pavement works. The indicative safe working distances and vibration from these plant are provided in **Table 5-7**. For this reason, this site is not expected have significant machine-derived operational noise.

*Table 5-7: Recommended safe working distances for vibration intensive plant (RMS, 2016)*

| Plant Item             | Rating / Description           | Safe Working Distance     |                                               |
|------------------------|--------------------------------|---------------------------|-----------------------------------------------|
|                        |                                | Cosmetic Damage (BS 7385) | Human Response (NSW EPA Vibration Guidelines) |
| Small hydraulic hammer | 300kg 5 to 12t excavator       | 2 m                       | 7 m                                           |
| Vibratory Roller       | < 50 kN (Typically 1-2 tonnes) | 5 m                       | 15 m to 20 m                                  |

### 5.6.2 Potential impacts during construction and operation

Impacts to receivers may cause irritation to residents, complaints, and negative publicity to Bayside Council. The proximity of low to high density residential properties is likely to increase the risk of irritation.

Noise levels expected from the site works are expected to be relatively low, due to the small number of plant required to undertake this task, and the majority of the work being conducted at the base of the seawall, acting as a noise barrier to residential zones to the west. Complaints may arise from works conducted at the rock stockpile location, which due to the unloading and loading of materials, may be a contributor to site noise emissions. The noise from construction work is expected to last in the order of 12 months and would be consistent with noise commonly encountered on residential and commercial building sites.

The proposed mitigation measures for the management of noise are provided in **Table 5-8**.

Table 5-8: Mitigation Measures for the Control of Noise

| #  | Noise Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                    |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | All works should be undertaken in accordance with construction noise guidelines.                                                                                                                                                                                                                                                                                                             |
| 2. | Nearby sensitive receivers (residences and businesses within 200 m) should be notified prior to commencement of works regarding the timing and expected noise levels of the construction works and to be made aware of the details of the complaints handling system including site manager contact details.                                                                                 |
| 3. | All works should be undertaken during the standard work hours if possible. No works to be undertaken outside standard hours without consultation with Council.                                                                                                                                                                                                                               |
| 4. | Construction vehicles and equipment should be suitably serviced prior to and appropriately maintained during construction activities.                                                                                                                                                                                                                                                        |
| 5. | Plant that is not being used should be turned off.                                                                                                                                                                                                                                                                                                                                           |
| 6. | Where feasible and reasonable, alternative work practices which minimise noise should be implemented.                                                                                                                                                                                                                                                                                        |
| 7. | All employees and contractors should receive an environmental induction prior to commencement of works. The induction to include: <ul style="list-style-type: none"> <li>• Relevant project specific and standard noise mitigation measures.</li> <li>• Permissible hours of work.</li> <li>• Location of nearest sensitive receivers.</li> <li>• Noise blankets on site fencing.</li> </ul> |

## 5.7 Visual Impacts

### 5.7.1 Existing environment

The existing amenity of the study area is characterised by Cook Park, Georges River Sailing Club and carpark, Lady Robinsons Beach, the existing walkway and seawall along the Sandringham foreshore. The public recreation spaces surrounding the study area are popular spaces for recreation such as sailing, fishing, swimming, sunbathing, cycling, running/exercising. The nearby streets and roads primarily comprise residential and commercial properties.

### 5.7.2 Potential impacts during construction and operation

The open nature of the beach and foreshore would mean the construction work sites would be highly visible by people, detracting from the visual amenity of the nearby area during the period of construction. Limited visual impact is expected from the riprap structure, as it will be below MHW, and at the toe of the seawall, which already has an existing rock toe structure along a significant portion of its length.

Impacts during the construction of the revised footpath will include the temporary impacts from the removal of the existing pavement, associated earthworks and landscaping, preparation and construction of the new pavement, and all associated works areas (including the site compound(s), stockpiling areas and sediment controls).

Impacts to landscape are expected during the construction phase with the presence of workers, plant and associated works infrastructure. Major impacts are limited to the duration of construction. The proposed mitigation measures for the management of visual impacts are provided in **Table 5-9**.

Table 5-9: Mitigation Measures for the management of Visual Impacts

| #  | Visual Impacts Mitigation Measures                                                                                                                                                                                                                                                         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | After the works, the site should be returned to pre-activity landscape conditions. In particular, within the rock storage and earthworks areas and surrounding land should be cleaned and returfed, and any disturbed infrastructure such as picnic benches, bins and bollards reinstated. |
| 2. | All areas where pavement is to be removed and the area backfilled (i.e. the existing footpath) must be revegetated (grassed) consistent with the surrounding area.                                                                                                                         |

## 5.8 Public Access and Safety

### 5.8.1 Existing environment

The area surrounding the proposed site compounds and works area are within a zone of public recreational land. This area comprises public park, beaches, foreshore and walkways.

It is understood that the seawall remediation and shared path upgrade works would be conducted concurrently. Two potential site compound locations have been proposed, as described in **Section 2.1.2**. Access to the riprap placement area from the northern site compound and Rock Storage Area to the beach would be via the existing two sand ramps (refer **Figure 5-10**). Access to the riprap placement area from the southern site compound could also be achieved via the concrete access ramp at Vanston Parade. Access to the area landward of the seawall would be achieved from the southern site compound at Vanston Parade and from the end of Ida Street.



Figure 5-10: Site Access Paths

### 5.8.2 Potential impacts during construction and operation

The proposed access paths for plant are through public land from the northern and southern site compounds. Public access to the beach can be gained through multiple routes, which would be suitably restricted during construction to maintain public safety. Beach access would be restricted at Lady Robinsons Beach Entry Point 13 (beach accessway), Lady Robinsons Beach Entry Point 14 (sand ramp), and Lady Robinsons Beach Entry Point 15 (sand ramp) (refer **Figure 5-10**).

Access along the foreshore and from the Southern Compound to the Northern extent of the footpath works area is likely to be restricted during operations for public safety. This will mean pedestrians will be required to take alternative routes around the foreshore to avoid the works area up to the southern end of Vanston Parade, as shown in **Figure 5-10**. It is assumed these access restrictions will be required for the entirety of the construction period.

These restrictions will require consideration by the contractor as part of a Traffic Management Plan (TMP) (refer **Section 5.9**). Alongshore beach access would be retained where safe to do so and be controlled by the Contractor's staff. Additionally the work site surrounding the construction footprint would be closed to the public for the period of the works.

The following mitigation measures provided in **Table 5-10** should be implemented to mitigate impacts to public access and safety leading to and during construction.

*Table 5-10: Mitigation Measures for the Control of Public Access and Safety*

| #  | Public Access and Safety Mitigation Measures                                                                                                                                                                                                                                                                                               |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Appropriate signage should be erected informing the public of the temporarily changed traffic and parking conditions, and any restricted access.                                                                                                                                                                                           |
| 2. | All practical measures should be implemented by the contractor to facilitate public access to the beach during construction. Alternative measures to access should be considered by the Council such as construction contractor escorts through restricted areas.                                                                          |
| 3. | The community should be notified of construction activities, particularly those that will restrict access to the use of public amenities and should be provided with a mechanism (e.g. phone number) for any complaints to be submitted.                                                                                                   |
| 4. | Prior to commencement of works, boundaries of the construction area(s), site compounds and access points should be marked with temporary barrier fencing and signage. The fencing should be monitored daily by the site supervisor, be immediately repaired or replaced if necessary and should be removed when construction is completed. |
| 5. | Machinery and heavy vehicles should only access the defined work sites via clearly defined routes.                                                                                                                                                                                                                                         |
| 6. | Pedestrian access within the works area should not be permitted over the duration of the works. Where normal construction fencing cannot be practically used then star pickets and para-webbing, or similar, and clear and obvious signage should be employed.                                                                             |
| 7. | General construction signage should be erected in publicly visible location to inform the community of the construction activities (locations, working hours, duration of works).                                                                                                                                                          |
| 8. | Workers and plant drivers should always maintain awareness of other users, including the use of spotters when vision is impeded.                                                                                                                                                                                                           |

| # | Public Access and Safety Mitigation Measures                                                                                                                                                                            |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9 | Suitable foreshore access should be enabled by the contractor for all stages of the path construction. This should include installation of barriers/fencing and signage showing alternative accessways where necessary. |

## 5.9 Traffic Management

### 5.9.1 Existing environment

The northern site compound is located within a carpark directly adjacent to the Georges River Sailing Club. Vehicular access to this site is limited to Sanoni Avenue to the west. This road, along with surrounding streets are predominantly residential. The carpark is commonly in use by the Sailing Club's patrons, beachgoers and residents.

The proposed rock storage area is on the northern side of the carpark. This is accessible via an access gate adjacent to the Sailing Club (refer **Figure 5-10**). Plant access to the site via Sanoni Avenue would be via the western entrance to the carpark and access to the area behind the carpark could be through the chained accessway adjacent to the Sailing Club. The narrow turn may impact ingress and egress from this area, however open paved space adjacent to the Sailing Club should provide suitable space for turning (depending on vehicle size).

Access from the northern site compound to the beach would cross two existing pedestrian paths, being the existing footpath behind the beach, and Lady Robinsons Beach Entry Point 13 (refer **Figure 5-10**).

### 5.9.2 Potential Impacts during construction

The construction works have the potential to disrupt the flow of traffic on Sanoni Avenue and the surrounding streets, and impact traffic within the beach carpark. Supply or removal of material is not expected to significantly disrupt local traffic flow due to the relatively low number of construction vehicle movements and the ability to regulate these movements to avoid traffic peaks.

The carpark adjacent to the Georges River Sailing Club would be temporarily impacted, due to the placement of the northern site compound. The proposed site compound would cover 16 spaces within the carpark during the construction phase. However, this is less than 15% of the total of approximately 120 car spaces within this carpark. Additionally, significant unrestricted street parking is available on adjacent streets, including Sanoni Avenue and McMillan Avenue.

The southern site compound (identified in **Figure 5-10**) is within Council managed Crown Land Reserve 500191. Extension of the site compound beyond the carparking spaces (over the Vanston Parade roadway) would impact the roadway, and extend outside Council managed Crown Land, requiring additional traffic management and approvals. It is recommended where possible that the southern site compound area is limited to the bounds of Crown Land Reserve 500191.

Additionally, site access along Vanston Parade is limited for large vehicles due to the existing heritage Port Jackson Fig tree in the roadway (refer **Section 5.12**). The contractor should consider suitable access, turning and egress for large vehicles to Vanston Parade assuming only one-way access (from the northern road entrance). This may require large vehicles to reverse down Vanston Parade for delivery of rock material.



Figure 5-11: Vanston Parade Access Restrictions



Figure 5-12: View of Vanston Parade (Source: Google Street View, February 2022)

### 5.9.3 Potential impacts during operation

There would be no traffic impacts during operation of the coastal protection works.

### 5.9.4 Recommended control measures

The proposed mitigation measures for traffic management are provided in **Table 5-11**.

Table 5-11: Traffic Management Mitigation Measures

| #  | Traffic Management Mitigation Measures                                                                                                                                                                                                                                                                 |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | A Traffic Management Plan (TMP) for the proposed works should be prepared, with particular focus on areas surrounding the proposed work sites (e.g. Sanoni Avenue and the Georges River Sailing Club carpark or Vanston Avenue), and pedestrian pathways within the construction and access footprint. |
| 2. | The Contractor should take all precautions to ensure that roads and thoroughfares used are not damaged as a result of the works.                                                                                                                                                                       |
| 3. | The Contractor should utilise materials sourced locally wherever possible to limit the use of public roads for long distance hauling of bulk construction materials.                                                                                                                                   |
| 4. | Large works vehicles (i.e. plant, trucks) should not pass the Port Jackson fig on Vanston Parade during works.                                                                                                                                                                                         |

## 5.10 Waste Management

### 5.10.1 Existing environment

It is expected that limited waste materials are generally present within the proposed construction area. Outside of storm events, the site is clean and free of waste issues. Waste inputs would most likely be confined to that left by recreational users and any waste material deposited by incoming tides and/ or waves.

The potential for contaminated soil or sediment within the study area is discussed in Section 5.1.

### 5.10.2 Potential impacts during construction and operation

The generation of waste material should be managed appropriately and in accordance with the relevant NSW EPA waste guidance.

Waste streams from the proposed construction activities are likely to include waste rubble (i.e. unused riprap material), and general construction wastes such as materials packaging and food/ drink packaging. The mismanagement of construction wastes can lead to the unnecessary contribution to landfill, alongside costly disposal fees if materials aren't appropriately classified for re-use or disposal.

The proposed mitigation measures for the control of waste management are provided in **Table 5-12**.

*Table 5-12: Mitigation Measures for the Control of Waste Management*

| #  | Waste Management Mitigation Measures                                                                                                                                                                                                                                                                                                   |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | All waste generated during the construction activities should be appropriately contained before re-use, relocation and/ or disposal off-site to prevent it from entering the marine environment.                                                                                                                                       |
| 2. | If visual inspection of any soils designated for offsite disposal indicates contamination may be present, the soils should be tested for potential contamination, classified, stored, transported, and disposed of at an appropriately licensed waste facility in accordance with NSW Waste Classification Guidelines (NSW EPA, 2014). |
| 3. | Any temporary stockpiles of waste should be appropriately covered and/or contained (e.g. bunding) to ensure no waste is washed or blown back into the marine environment.                                                                                                                                                              |
| 4. | General waste bins should be available for use onsite and disposed of at a license facility frequently.                                                                                                                                                                                                                                |
| 5. | Washout of trucks and cleaning of equipment and/or vehicles used during the works should not be undertaken in locations that permit flow of untreated wastewater directly to the open drainage system.                                                                                                                                 |
| 6. | Upon completion of the works, the site should be cleared of all surplus materials and any remaining waste created by the works.                                                                                                                                                                                                        |

## 5.11 Aboriginal Heritage

### 5.11.1 Existing environment

A review of potential cultural and heritage locations was undertaken using the Aboriginal Heritage Information Management System (AHIMS) search tool (accessed via [Aboriginal Heritage Information Management System \(AHIMS\) Web Services \(nsw.gov.au\)](https://www.nsw.gov.au/aboriginal-heritage-information-management-system)), indicating there are no known sites or places of Aboriginal significance within the construction footprint declared under Section 84 of the *NP&W Act*. Three sites were identified in the surrounding area, including the southern end of the Sandringham Seawall (refer **Figure 5-13**).



Figure 5-13: AHIMS Search Result for Sandringham

### 5.11.2 Potential impacts during construction and operation

Considering the distance of recorded Aboriginal heritage sites from the proposed construction site, it is unlikely that an Aboriginal feature will be harmed, destroyed, defaced, or damaged during construction of the riprap structure. There is always the potential for unknown or undiscovered finds on any site, particularly those in foreshore areas where congregations and fishing activities may have historically occurred. The minimal expected disturbance to sediments, and the highly mobile nature of the bed material, indicates the likelihood for these finds is low.

Standard good practice management and control measures would be implemented when necessary and are described in **Table 5-13**.

Table 5-13: Mitigation Measures for the management of Aboriginal Heritage

| #  | Aboriginal Heritage Mitigation Measures                                                                                                                                                                                                                                                        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | All persons should be made aware that it is an offence under Section 86 of the National Parks and Wildlife Act 1975 to harm or desecrate an Aboriginal object unless that harm or desecration is the subject of an approved Aboriginal Heritage Impact Permit (AHIP).                          |
| 2. | In the unlikely event that an Aboriginal object is identified whilst carrying out works during construction, works in the vicinity of the find should cease immediately and Council's Environment Officer, Aboriginal Heritage Office and DPE should be notified for advice on how to proceed. |
| 3. | Should any skeletal material be uncovered during construction, works in the vicinity should cease immediately and the Contractor would contact Council's Superintendent, DPE and the NSW Police.                                                                                               |

## 5.12 Non-Indigenous Heritage

A search of the NSW State Heritage Register, Marine Heritage Register, Commonwealth Heritage List and Bayside LEP were undertaken.

The lot containing the proposed works area (Cook Park) is listed as heritage under the Bayside Local Environmental Plan 2021 as an area of local significance (refer **Figure 5-14** and **Table 5-14**).



Figure 5-14: Non-Indigenous Heritage at Sandringham Seawall

Table 5-14: Heritage items surrounding the study area

| Item name | Address     | Property Description     | Significance          |
|-----------|-------------|--------------------------|-----------------------|
| Cook Park | 1 Cook Park | As shown on Heritage Map | Local (Heritage Item) |

As outlined in the Conservation Management Plan for Cook Park (Britton G. Jackson N., 2014) from a cultural heritage perspective, Cook Park is of considerable value for the following reasons:

1. it is one of the earliest NSW parks the State Government established; it is one of the earliest and longest municipal parks in the Sydney region and featuring an extensive beachfront;
2. it retains almost the whole extent of its considerable 1886 dedicated area;
3. it retains some of Rockdale's earliest plantings (from the late 19th century and early 20th century);
4. it includes an important park component of a largely intact 1877 town plan concept directly linking it with the nearby, and culturally significant, Scarborough Park; and
5. it retains remnant plantings of Japanese Black Pine (*Pinus thunbergii*) and a Strangling fig (*Ficus watkinsiana*) that are uncommon within the Rockdale area at this age.

The proposed works will be within the Dolls Point/Sandringham/Sans Souci (South) Precinct within the Cook Park heritage area (refer **Figure 5-15** and **Figure 5-16**). The main significant items identified in section 6.3.7 of the CMP (Britton G. Jackson N. 2014) surrounding the proposed works are summarised in **Table 5-15**.

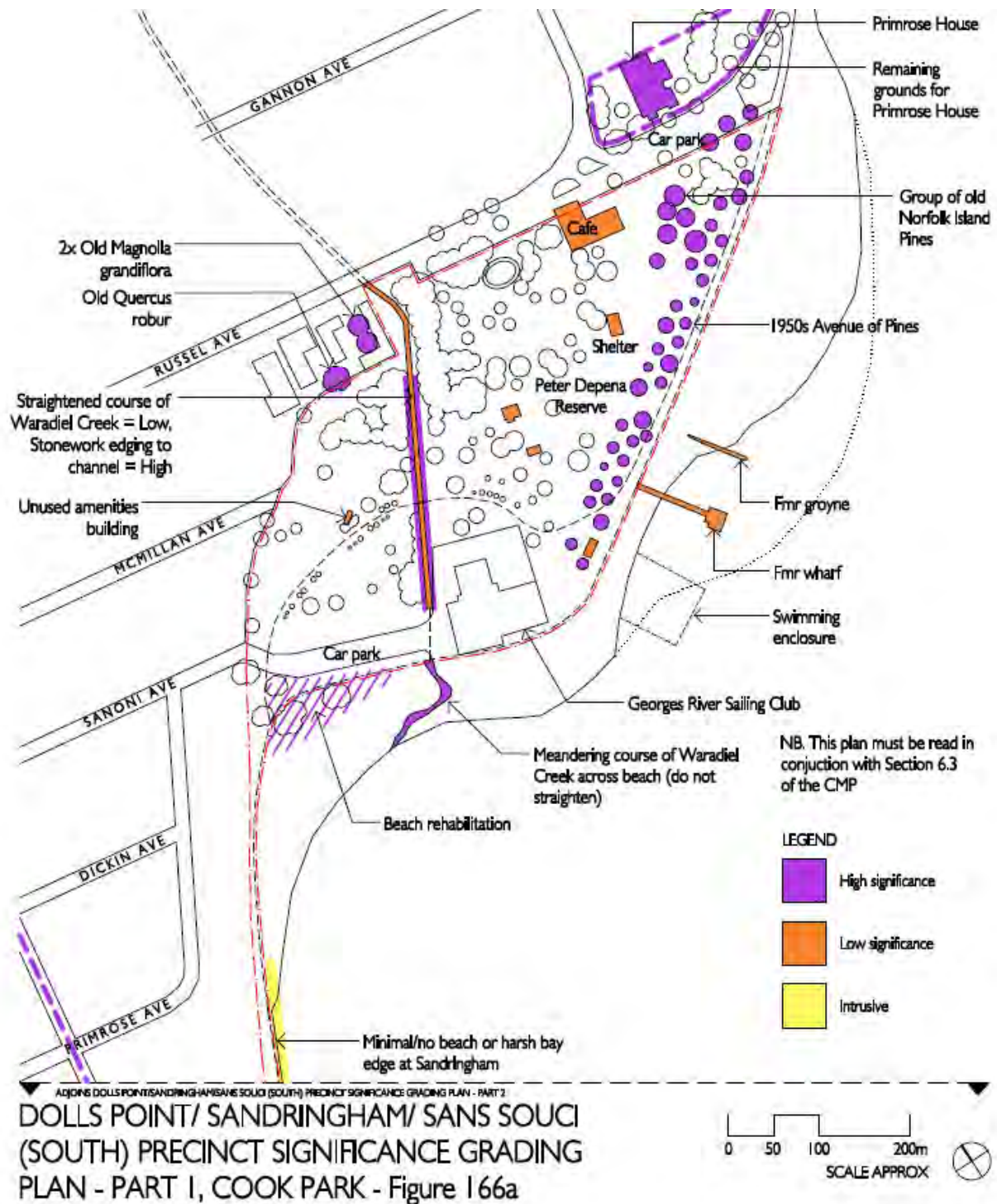


Figure 5-15: Dolls Point/Sandringham/Sans Souci Precinct Significance Grading Plan (North) (Britton G. Jackson N., 2014)

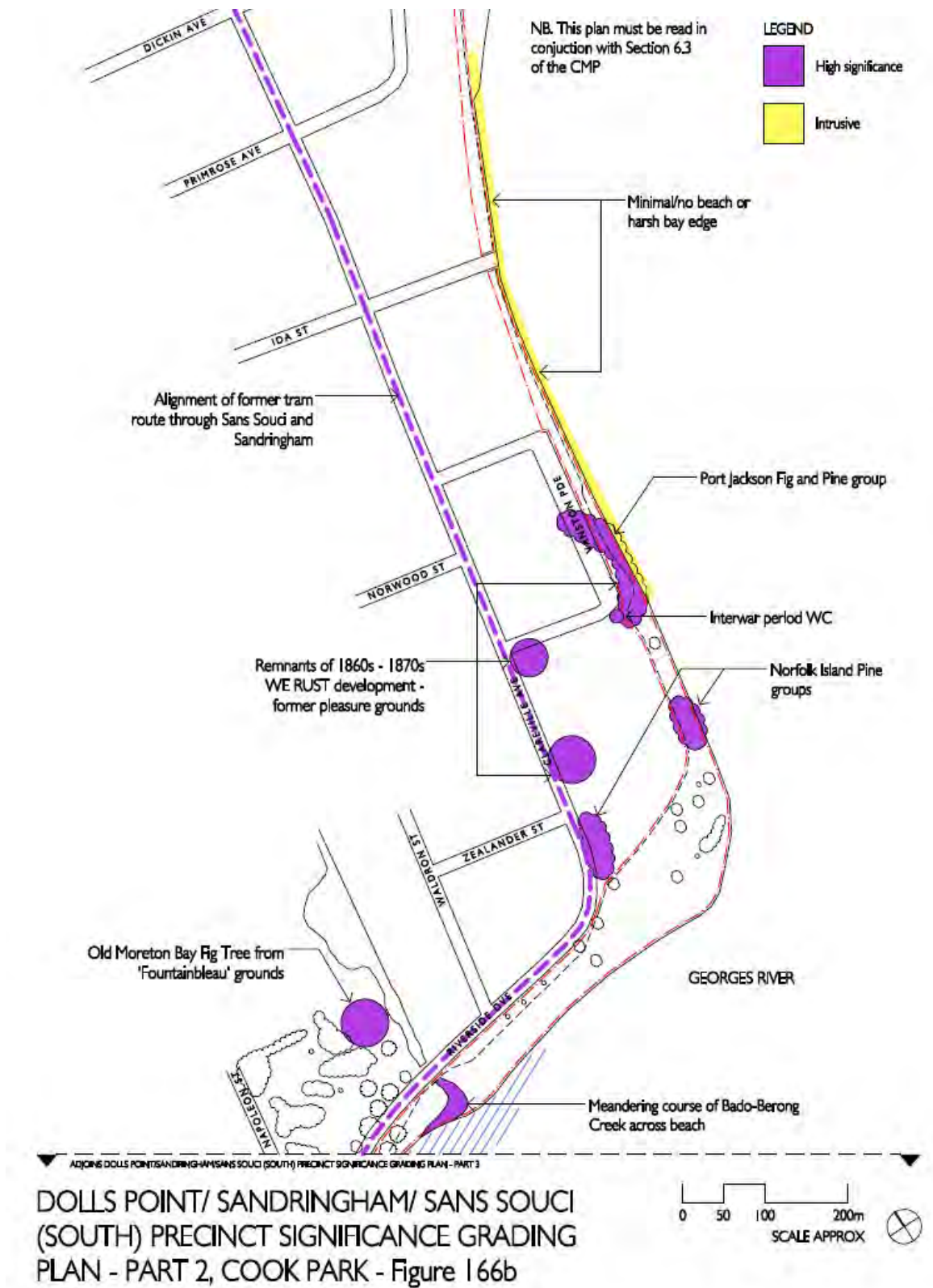


Figure 5-16: Dolls Point/Sandringham/Sans Souci Precinct Significance Grading Plan (South) (Britton G. Jackson N., 2014)

Table 5-15: Non-Indigenous heritage items identified in near the proposed works areas in the Dolls Point/Sandringham/Sans Souci Precinct in the Cook Park Heritage CMP (Britton G. Jackson N., 2014)

| # | Heritage Item                                                                                              | Location                                                                         | Significance | Tolerance for Change |
|---|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|----------------------|
| 1 | Surviving plantings associated with WE Rust's land at Sandringham (Norfolk Island Pines on Vanston Parade) | The pines are more than 20 m south of the proposed Vanston Parade site compound. | High         | Low                  |
| 2 | Surviving plantings associated with WE Rust's land at Sandringham (Port Jackson Fig on Vanston Parade)     | The Fig is approximately 10m south of the proposed Vanston Parade site compound. | High         | Low                  |
| 3 | Park area                                                                                                  | All park areas at the north of the site and along the foreshore                  | High         | Low                  |
| 3 | Waradiel Creek (mostly channelled and piped)                                                               | No impact to the drainage channel is expected from the proposed works.           | High         | Low                  |
| 4 | Concrete Seawall                                                                                           | Low significant                                                                  | Low          | High                 |

The trees identified on Vanston Parade, and associated impacts to access have been discussed in **Section 5.9**. The proposed works cover a small portion of the total Cook Park heritage area are not expected to impact any of the cultural heritage points. This heritage status is discussed in **Section 3.5**. Based on an assessment of the works, and the potential impacts to the heritage significance of Cook Park, it has been concluded the proposed maintenance works do not require development consent.



Figure 5-17: Port Jackson fig and Norfolk Island Pines on Vanston Parade (Britton G. Jackson N., 2014)

### 5.12.1 Potential impacts during construction and operation

The proposed works are located within a heritage area. The proposed works should not significantly impact any of the Cook Park infrastructure, or adversely affect the long term significance of Cook Park as a heritage item. All impacted areas are to be reinstated to pre-activity conditions or improved during the works (as specified in **Section 5.7**).

Table 5-16: Impacts to heritage items

| # | Heritage Item                                                                                              | Impact                                                                                               |
|---|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1 | Surviving plantings associated with WE Rust's land at Sandringham (Norfolk Island Pines on Vanston Parade) | Beyond site extent, no impact is expected                                                            |
| 2 | Surviving plantings associated with WE Rust's land at Sandringham (Port Jackson Fig on Vanston Parade)     | Beyond site extent (approximately 10m), exclusion zone should be implemented for vehicles and plant. |

| # | Heritage Item                                | Impact                                                                                                                                    |
|---|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Park area                                    | Temporary impact for use of specific park areas. Works will remediate all impacted parkland, and improve amenity of the nearby foreshore. |
| 3 | Waradiel Creek (mostly channelled and piped) | No expected impact to the creek and structure                                                                                             |
| 4 | Concrete Seawall                             | Repairs will maintain the current seawall                                                                                                 |

Heritage trees along Vanston Parade are south of the proposed Vanston Parade site compound. It is not expected the site compound will impact on the existing trees however traffic management should consider limiting access within the Vanstone Parade roadway due to the existing Fig tree (as discussed in **Section 5.9**). The southern corner of proposed site compound on Vanston Parade is approximately 10m from the Fig tree.

The proposed works should implement suitable control measures to minimise damage to any existing heritage, as provided in **Table 5-17**.

*Table 5-17: Mitigation Measures for the management of Non Indigenous Heritage*

| #  | Non Indigenous Heritage Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Appropriate liaison with Council's Heritage Officers should be undertaken to determine internal Council approvals for construction works potentially impacting the Cook Park Infrastructure, including the existing seawall.                                                                                                                                                                                                             |
| 2. | If during the course the works previously unknown historical archaeological material or heritage items are discovered, all work in the area of the item(s) should cease immediately. Council should engage the Heritage Division, DPE and a qualified heritage consultant, in accordance with Section 146 of the Heritage Act, to determine an appropriate course of action prior to the recommencement of work in the area of the item. |
| 3  | Works should ensure a 10m exclusion zone is in place from the Norfolk Island Pines and Port Jackson Fig Tree on the southern extent of Vanston Parade.                                                                                                                                                                                                                                                                                   |
| 4  | Large works vehicles (i.e. plant, trucks) should not pass the Port Jackson fig on Vanston Parade during works.                                                                                                                                                                                                                                                                                                                           |

### 5.13 Cumulative environmental effects with other existing or likely future activities

Work along the adjacent footpath and potentially general private housing development may occur in the area and may coincide with the proposed Sandringham seawall works.

At the construction phase a minor cumulative increase in traffic, noise and dust is possible arising from concurrent activity. However, provided that the mitigation measures identified within this REF are adhered to the cumulative impact would be reduced to a minimum.

Positive cumulative environmental and social impacts would result from operation of the repaired seawall including improved protection of public land and improved public safety.

The assessment indicates that the activity is not likely to have a significant effect on the environment. A range of environmental factors as listed in section 171 of the Environmental Planning and Assessment Regulation 2021 and Commonwealth Matters of National Environmental Significance have been considered as discussed in **Section 7**.

Implementation of the mitigation measures and safeguards identified above would minimise the risk of any impact and therefore further reduce the significance of any effect of cumulative impacts.

## 6 Control Measures

A summary of the control measures discussed is provided below in **Table 6-1**.

Table 6-1: Summary of Mitigation Measures

| Sediment Quality Mitigation Measures |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                    | Soil and rock recovered during the works should be reused on-site where possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2                                    | Any excess excavated beach sands should remain part of the active beach system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3                                    | An Unexpected Finds Procedure (UFP) should be prepared and incorporated into the Construction Environmental Management Plan (CEMP) to facilitate effective management of contaminated material found during exaction works, including notifying the council for suggested action.                                                                                                                                                                                                                                                                    |
| 4                                    | If ASS is identified during excavation of subsurface materials, an Acid Sulfate Soil Management Plan (ASSMP) should be prepared to avoid environmental degradation if soils which are to be disturbed are found to contain actual or potential ASS.                                                                                                                                                                                                                                                                                                  |
| 5                                    | All temporary stockpiles, including site-won or imported material should be protected with diversion drains, silt fences and straw bales to prevent soil loss.                                                                                                                                                                                                                                                                                                                                                                                       |
| 6                                    | Tracking of sediment from the construction site via construction equipment onto the roads should be minimised by cleaning of any machinery in a designated washdown area.                                                                                                                                                                                                                                                                                                                                                                            |
| 7                                    | Suitable geotechnical and sediment quality investigations should be conducted prior to construction of the new proposed shared path.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ecology Mitigation Measures          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8                                    | An effective spill and leakage procedure should be implemented with control measures listed under Water Quality.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9                                    | An inspection of seagrass within 20 m of the construction footprint should be conducted prior to construction of the riprap apron structure with sufficient time allowed for prior to construction commencing for the application of a Fisheries Permit if required. This should be conducted in accordance with the NSW Maritime Marine Habitat Survey Guidelines (NSW Maritime 2010).                                                                                                                                                              |
| 10                                   | Loud and abrasive works below the MHWL should be minimised where possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11                                   | Contractor should cease work activities and notify Council if fauna species are observed to persistently occupy areas in the immediate vicinity of work zones.                                                                                                                                                                                                                                                                                                                                                                                       |
| 12                                   | If native fauna is injured, immediate contact should be made with a wildlife rescue service or a veterinary surgeon.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13                                   | Workers should be informed of their obligations and possible offences under the Fisheries Management Act, NSW National Parks and Wildlife Act and Australian Environmental Protection and Biodiversity Conservation Act with respect to protected marine vegetation and threatened and migratory species.                                                                                                                                                                                                                                            |
| 14                                   | If any plants are disturbed from the works (i.e. in the rock storage area), revegetation of the site should use only local native plant species, preferably grown from local stock. If possible, plants that are in areas that are to be excavated or accessed shall be carefully dug up and appropriately stored for replanting after construction work.                                                                                                                                                                                            |
| 15                                   | When revegetating sites, the following plants shall not be used and shall be controlled in according to a weed management plan for the sites:                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                      | <ul style="list-style-type: none"> <li>- Plant species listed as weeds by NSW Department of Primary Industries (<a href="http://www.dpi.nsw.gov.au/agriculture/pests-weeds/weeds/profiles">http://www.dpi.nsw.gov.au/agriculture/pests-weeds/weeds/profiles</a>)</li> <li>- Plant species listed as part of key threatening processes (<a href="http://www.environment.nsw.gov.au/threatenedspecies/KeyThreateningProcessesByDoctype.html">http://www.environment.nsw.gov.au/threatenedspecies/KeyThreateningProcessesByDoctype.html</a>)</li> </ul> |
| 16                                   | Suitable erosion controls must be implemented prior to earthworks for the shared path to prevent increased sediment loading into Botany Bay.                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17                                       | If vessel support is required for the proposed work, approved mooring plans should be provided by the contractor to include exclusion / buffer zones around seagrass bed locations. Due to shallow water at the site, the contractors mooring plans should include a statement relating to proposed propeller wash management to reduce siltation and impacts to seagrass in these areas. |
| 18                                       | All rock containing oysters removed during the works should be stockpiled appropriately (in a marine environment within the construction footprint) and reused on-site where possible.                                                                                                                                                                                                    |
| <b>Water Quality Mitigation Measures</b> |                                                                                                                                                                                                                                                                                                                                                                                           |
| 19                                       | Sediment controls installed surrounding imported rock stockpiles, soil stockpiles, and any earthworks.                                                                                                                                                                                                                                                                                    |
| 20                                       | Daily visual inspections by the Contractor for turbidity and settlement of sand surrounding construction.                                                                                                                                                                                                                                                                                 |
| 21                                       | Industry standards and pollution prevention regulations to be adhered to during refuelling, transfer, storage and handling of hazardous materials.                                                                                                                                                                                                                                        |
| 22                                       | Contractor to ensure that all plant is maintained in good working order with regular servicing.                                                                                                                                                                                                                                                                                           |
| 23                                       | No major maintenance of equipment should be undertaken on-site.                                                                                                                                                                                                                                                                                                                           |
| 24                                       | Weather and tide forecasts to be checked regularly during construction. Where flooding or inundation is forecast to any work area, all equipment and materials to be removed from the landside construction zone or appropriately secured above expected flood levels in the area.                                                                                                        |
| 25                                       | Any machinery working adjacent to the seawall is to carry a full spill containment kit including hydrocarbon booms to reduce the impact of any spill.                                                                                                                                                                                                                                     |
| 26                                       | All machinery should be routinely checked for leaks, with an emergency spill kit to be kept on site at all times. All staff are to be made aware of the location of the spill kit and trained in its use.                                                                                                                                                                                 |
| 27                                       | Appropriate site and project inductions/training detailing potential water quality impacts and relevant construction measures and spill and emergency response procedures to be used.                                                                                                                                                                                                     |
| <b>Air Quality Mitigation Measures</b>   |                                                                                                                                                                                                                                                                                                                                                                                           |
| 28                                       | The contractor must maintain their machinery in accordance with NSW EPA guidance and implement minimum performance indicators specified during planning.                                                                                                                                                                                                                                  |
| 29                                       | All plant used by the Contractor should be in good operating condition and free of excessive emissions.                                                                                                                                                                                                                                                                                   |
| 30                                       | All plant, equipment and vehicles should not idle for extended periods of time; they should be switched off if not in operation.                                                                                                                                                                                                                                                          |
| 31                                       | Weather and tide forecasts should be checked regularly during construction. Works should not be carried out during strong winds or in weather conditions where high levels of dust or airborne particulates are likely.                                                                                                                                                                   |
| 32                                       | Uncovered or stockpiled materials that may lead to the generation of dust or windblown sand should be covered or watered down.                                                                                                                                                                                                                                                            |
| 33                                       | Public roads and sealed areas should be kept free of soil/dust through sweeping.                                                                                                                                                                                                                                                                                                          |
| <b>Noise Mitigation Measures</b>         |                                                                                                                                                                                                                                                                                                                                                                                           |
| 34                                       | All works should be undertaken in accordance with construction noise guidelines.                                                                                                                                                                                                                                                                                                          |
| 35                                       | Nearby sensitive receivers (residences and businesses within 200 m) should be notified prior to commencement of works regarding the timing and expected noise levels of the construction works and to be made aware of the details of the complaints handling system including site manager contact details.                                                                              |
| 36                                       | All works should be undertaken during the standard work hours if possible. No works to be undertaken outside standard hours without consultation with Council.                                                                                                                                                                                                                            |
| 37                                       | Construction vehicles and equipment should be suitably serviced prior to and appropriately maintained during construction activities.                                                                                                                                                                                                                                                     |
| 38                                       | Plant that is not being used should be turned off                                                                                                                                                                                                                                                                                                                                         |
| 39                                       | Where feasible and reasonable, alternative work practices which minimise noise should be implemented.                                                                                                                                                                                                                                                                                     |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40                                                  | All employees and contractors should receive an environmental induction prior to commencement of works. The induction to include: <ul style="list-style-type: none"> <li>• Relevant project specific and standard noise mitigation measures.</li> <li>• Permissible hours of work.</li> <li>• Location of nearest sensitive receivers.</li> <li>• Noise blankets on site fencing.</li> </ul> |
| <b>Visual Impacts Mitigation Measures</b>           |                                                                                                                                                                                                                                                                                                                                                                                              |
| 41                                                  | After the works, the site should be returned to pre-activity landscape conditions. In particular, within the rock storage area and surrounding land should be cleaned and returfed, and any disturbed infrastructure such as picnic benches, bins and bollards re-instated.                                                                                                                  |
| 42                                                  | All areas where pavement is to be removed and the area backfilled (i.e. the existing footpath) must be revegetated (grassed) consistent with the surrounding area.                                                                                                                                                                                                                           |
| <b>Public Access and Safety Mitigation Measures</b> |                                                                                                                                                                                                                                                                                                                                                                                              |
| 43                                                  | Appropriate signage should be erected informing the public of the temporarily changed traffic and parking conditions, and any restricted access.                                                                                                                                                                                                                                             |
| 44                                                  | All practical measures should be implemented by the contractor to facilitate public access to the beach during construction. Alternative measures to access should be considered by the Council such as construction contractor escorts through restricted areas.                                                                                                                            |
| 45                                                  | The community should be notified of construction activities, particularly those that will restrict access to the use of public amenities and should be provided with a mechanism (e.g. phone number) for any complaints to be submitted.                                                                                                                                                     |
| 46                                                  | Prior to commencement of works, boundaries of the construction area(s), site compounds and access points should be marked with temporary barrier fencing and signage. The fencing should be monitored daily by the site supervisor, be immediately repaired or replaced if necessary and should be removed when construction is completed.                                                   |
| 47                                                  | Machinery and heavy vehicles should only access the defined work sites via clearly defined routes.                                                                                                                                                                                                                                                                                           |
| 48                                                  | Pedestrian access within the works area should not be permitted over the duration of the works. Where normal construction fencing cannot be practically used then star pickets and para-webbing, or similar, and clear and obvious signage should be employed.                                                                                                                               |
| 49                                                  | General construction signage should be erected in publicly visible location to inform the community of the construction activities (locations, working hours, duration of works).                                                                                                                                                                                                            |
| 50                                                  | Workers and plant drivers should always maintain awareness of other users, including the use of spotters when vision is impeded.                                                                                                                                                                                                                                                             |
| 51                                                  | Suitable foreshore access should be enabled by the contractor for all stages of the path construction. This should include installation of barriers/fencing and signage showing alternative accessways where necessary.                                                                                                                                                                      |
| <b>Traffic Management Mitigation Measures</b>       |                                                                                                                                                                                                                                                                                                                                                                                              |
| 52                                                  | A Traffic Management Plan (TMP) for the proposed works should be prepared, with particular focus on areas surrounding the proposed work sites (e.g. Sanoni Avenue and the Georges River Sailing Club carpark or Vanston Avenue), and pedestrian pathways within the construction and access footprint.                                                                                       |
| 53                                                  | The Contractor should take all precautions to ensure that roads and thoroughfares used are not damaged as a result of the works.                                                                                                                                                                                                                                                             |
| 54                                                  | The Contractor should utilise materials sourced locally wherever possible to limit the use of public roads for long distance hauling of bulk construction materials.                                                                                                                                                                                                                         |
| 55                                                  | Large works vehicles should not pass the Port Jackson fig on Vanston Parade during works.                                                                                                                                                                                                                                                                                                    |
| <b>Waste Management Mitigation Measures</b>         |                                                                                                                                                                                                                                                                                                                                                                                              |
| 56                                                  | All waste generated during the construction activities should be appropriately contained before re-use, relocation and/ or disposal off-site to prevent it from entering the marine environment.                                                                                                                                                                                             |
| 57                                                  | If visual inspection of any soils designated for offsite disposal indicates contamination may be present, the soils should be tested for potential contamination, classified, stored, transported,                                                                                                                                                                                           |

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | and disposed of at an appropriately licensed waste facility in accordance with NSW Waste Classification Guidelines (NSW EPA, 2014).                                                                                                                                                                                                                                                                                                      |
| 58                                                 | Any temporary stockpiles of waste should be appropriately covered and/or contained (e.g. bunding) to ensure no waste is washed or blown back into the marine environment.                                                                                                                                                                                                                                                                |
| 59                                                 | General waste bins should be available for use onsite and disposed of at a license facility frequently.                                                                                                                                                                                                                                                                                                                                  |
| 60                                                 | Washout of trucks and cleaning of equipment and/or vehicles used during the works should not be undertaken in locations that permit flow of untreated wastewater directly to the open drainage system.                                                                                                                                                                                                                                   |
| 61                                                 | Upon completion of the works, the site should be cleared of all surplus materials and any remaining waste created by the works.                                                                                                                                                                                                                                                                                                          |
| <b>Aboriginal Heritage Mitigation Measures</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 62                                                 | All persons should be made aware that it is an offence under Section 86 of the National Parks and Wildlife Act 1975 to harm or desecrate an Aboriginal object unless that harm or desecration is the subject of an approved Aboriginal Heritage Impact Permit (AHIP).                                                                                                                                                                    |
| 63                                                 | In the unlikely event that an Aboriginal object is identified whilst carrying out works during construction, works in the vicinity of the find should cease immediately and Council's Environment Officer, Aboriginal Heritage Office and DPE should be notified for advice on how to proceed.                                                                                                                                           |
| 64                                                 | Should any skeletal material be uncovered during construction, works in the vicinity should cease immediately and the Contractor would contact Council's Superintendent, DPE and the NSW Police.                                                                                                                                                                                                                                         |
| <b>Non Indigenous Heritage Mitigation Measures</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 65                                                 | Appropriate liaison with Council's Heritage Officers should be undertaken to determine internal Council approvals for construction works potentially impacting the Cook Park Infrastructure, including the existing seawall.                                                                                                                                                                                                             |
| 66                                                 | If during the course the works previously unknown historical archaeological material or heritage items are discovered, all work in the area of the item(s) should cease immediately. Council should engage the Heritage Division, DPE and a qualified heritage consultant, in accordance with Section 146 of the Heritage Act, to determine an appropriate course of action prior to the recommencement of work in the area of the item. |
| 67                                                 | Works should ensure a 10m exclusion zone is in place from the Norfolk Island Pines and Port Jackson Fig Tree on the southern extent of Vanston Parade.                                                                                                                                                                                                                                                                                   |
| 68                                                 | Large works vehicles (i.e. plant, trucks) should not pass the Port Jackson fig on Vanston Parade during works.                                                                                                                                                                                                                                                                                                                           |

## 7 Environmental Factors Considered

### 7.1 Consideration of Factors in Clause 171(2) of the EP&A Regulation

Clause 171(2) of the *EP&A Regulation 2021* provides a list of factors that must be considered in determining the likely impacts of an activity on the natural and built environment and therefore the necessity for an Environmental Impact Statement (EIS).

Following review of the Clause 171(2) factors outlined below, the proposed works are not considered to result in significant detrimental environmental impacts. Therefore it is concluded that an EIS is not required, and this REF is considered an appropriate environmental assessment.

| FACTOR                                                                                                                                                                                                                             | IMPACT | Section in this report |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|
| a. Any environmental impact on a community?                                                                                                                                                                                        | No     | 5.8                    |
| b. Any transformation of a locality?                                                                                                                                                                                               | No     | 5.7                    |
| c. Any environmental impact on the ecosystems of the locality?                                                                                                                                                                     | No     | 5.3                    |
| d. Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?                                                                                                                 | No     | 5.7                    |
| e. Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations? | No     | 5.11                   |
| f. Any impact on the habitat of protected fauna (within the meaning of the <i>National Parks and Wildlife Act 1974</i> )?                                                                                                          | No     | 5.3                    |
| g. Any endangering of any species of animal, plant or other form of life whether living on land, in water or in the air?                                                                                                           | No     | 5.3                    |
| h. Any long term effects on the environment?                                                                                                                                                                                       | No     | 5.13                   |
| i. Any degradation of the quality of the environment?                                                                                                                                                                              | No     | 5.3, 5.4, 5.5          |
| j. Any risk to the safety of the environment?                                                                                                                                                                                      | No     | 5.8                    |
| k. Any reduction in the range of beneficial uses of the environment?                                                                                                                                                               | No     | 5.8                    |
| l. Any pollution of the environment?                                                                                                                                                                                               | No     | 5.3, 5.4, 5.5          |
| m. Any environmental problems associated with the disposal of waste?                                                                                                                                                               | No     | 5.10                   |
| n. Any increased demands on resources (natural or otherwise) that are or are likely to become in short supply?                                                                                                                     | No     | 5.2                    |
| o. Any cumulative environmental effect with other existing or likely future activities?                                                                                                                                            | No     | 5.13                   |
| p. Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?                                                                                                                 | No     | 5.2                    |

## 7.2 Consideration of Matters of National Environmental Significance

Matters of National Environmental Significance must be considered under the environmental assessment provisions of the Environment Protection and Biodiversity Conservation Act (EPBC Act). No matters of National Environmental Significance would be impacted by the proposed works, as set out below.

|                                                                                                   |    |
|---------------------------------------------------------------------------------------------------|----|
| a. Any environmental impact on a world heritage property?                                         | No |
| b. Any Environmental Impact on a National Heritage place?                                         | No |
| c. Any Environmental Impact on Ramsar Wetlands of international importance?                       | No |
| d. Any environmental impact on Commonwealth listed threatened species and ecological communities? | No |
| e. Any environmental impact on Commonwealth listed migratory species?                             | No |
| f. Does any part of the project involve a nuclear action?                                         | No |
| g. Any environmental impact on the Commonwealth marine environment?                               | No |
| h. Any impact on Commonwealth land?                                                               | No |

## 8 Conclusions

This REF is a written statement prepared for Bayside Council that considers the impacts of the proposed riprap apron placement at the toe of the existing Sandringham seawall, remedial works behind the seawall, and shared path construction. The proposed works are to be undertaken under Part 5 of the EP&A Act.

Bayside Council are the determining authority for the works. Other approvals under for the works include a permit for dredging and/or reclamation under Part 7, Section 200 of the FM Act. On the basis of the August 2022 marine ecology survey, a permit to harm marine vegetation under Part 7, Section 205 of the FM Act is not required. This assumes that no existing seagrass patches or new seagrass growth extends across the construction footprint prior to construction taking place. An inspection of seagrass within 20 m of the construction footprint should be conducted prior to construction of the riprap apron structure with sufficient time allowed for prior to construction commencing for the application of a Fisheries Permit if required. This should be conducted in accordance with the NSW Maritime Marine Habitat Survey Guidelines (NSW Maritime 2010).

Potential impacts primarily relate to marine ecology, public access and noise. Safeguards and management measures as detailed in this REF would ameliorate or minimise these expected impacts. Positive environmental and social impacts would result from the seawall repairs including improved protection of public land and improved public safety.

The proposed works would be unlikely to cause a significant impact on the environment. Therefore, it is not necessary for an environmental impact statement to be prepared. The proposed works are also unlikely to affect Commonwealth land or have an impact on any MNES. The proposal is subject to assessment under Division 5.1 of the EP&A Act. Development consent from Council is not required.

## 9 References

Austroads, 2013. Austroads Design Vehicles and Turning Path Templates Guide, Available at: <https://austroads.com.au/publications/road-design/ap-g34> [Accessed 11 October 2022].

Britton G, Jackson N, 2014. Conservation Management Plan for Cook Park, Rockdale City Council. Georges Riverkeeper. 2022. Safe swimming in the Georges River. [online] Available at: <https://georgesriver.org.au/learn-about-the-river/safe-swimming-the-georges-river> [Accessed 29 April 2022].

NSW Environment and Heritage. 2022. Sydney beaches weekly star ratings. [online] Available at: <https://www.environment.nsw.gov.au/topics/water/beaches/sydney-beaches/weekly-star-ratings> [Accessed 29 April 2022].

Public Works Advisory, 2020, Sandringham Seawall Remediation Options, Geotechnical Investigation

Royal HaskoningDHV, 2021. Sandringham Bay Sans Souci Seawall and Adjacent Pedestrian / Cycle Path Stage 1 -Options Assessment.

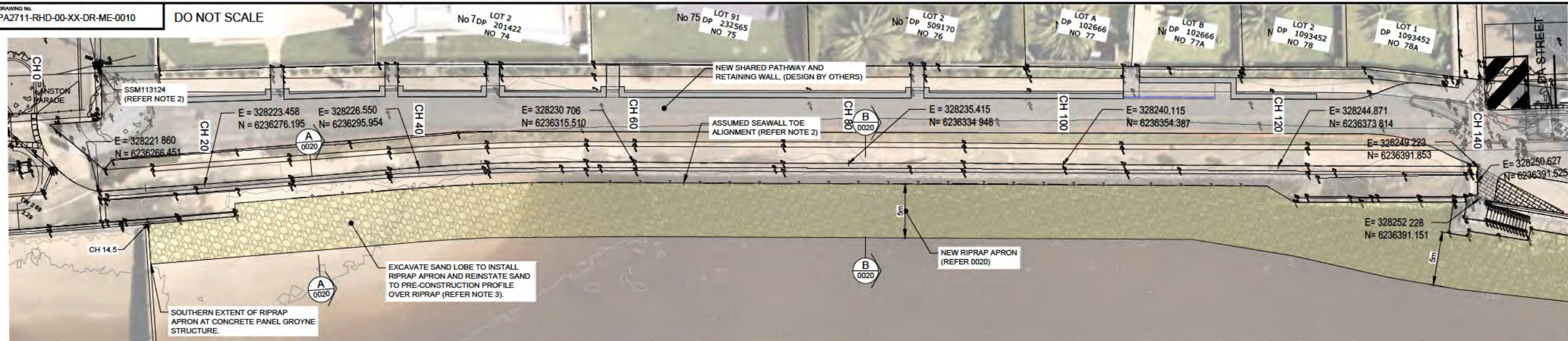
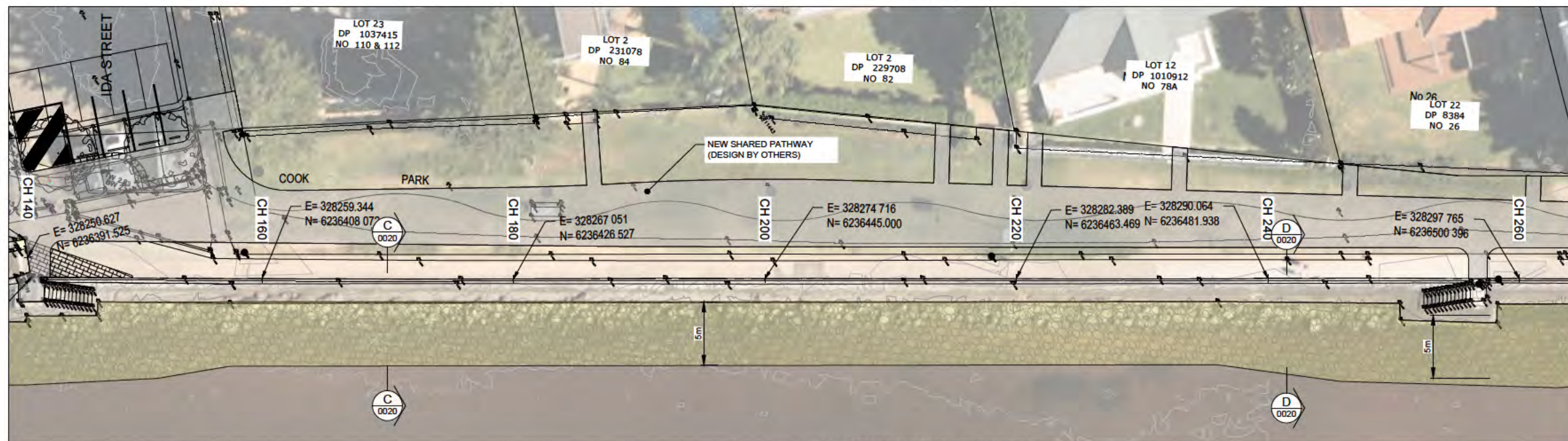
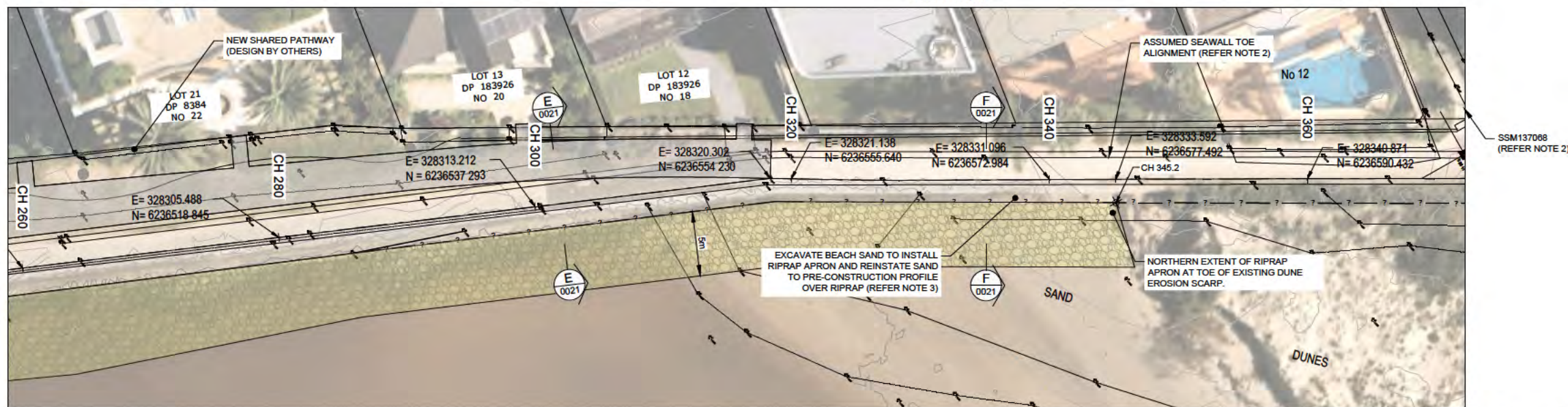
Roads and Maritime Services (RMS), 2016a, Construction and Maintenance Noise Estimator, Excel Tool, NSW Government

Roads and Maritime Services (RMS), 2016b, Construction Noise and Vibration Guideline, NSW Government

URS, Port Botany Expansion, 2013, Port Botany Expansion, Environmental Impact Statement – Volume 1. Chapter 15 – Hydrodynamics and Coastal Processes.

Worley Parsons, 2012, Sandringham Beach Marine Ecology and Habitat Survey.

## Appendix A: Design Drawings

GENERAL ARRANGEMENT - PART 1  
CH00 TO CH140  
SCALE 1:200 (A1)GENERAL ARRANGEMENT - PART 2  
CH140 TO CH260  
SCALE 1:200 (A1)GENERAL ARRANGEMENT - PART 3  
CH260 TO CH370  
SCALE 1:200 (A1)

## NOTES:

1. ALL LEVELS ARE IN METRES (m) RELATIVE TO AUSTRALIAN HEIGHT DATUM.
2. EXISTING SEAWALL FEATURES AND NEARSHORE SEABED LEVELS TO BE CONFIRMED BY SURVEYOR PRIOR TO CONSTRUCTION.
3. EXCESS SAND FROM LOCALISED EXCAVATION REQUIRED TO INSTALL RIPRAP APRON TO BE PLACED ON NORTHERN BEACH AREA AND PROFILED AS DIRECTED BY COUNCIL.
4. CHAINAGE SYSTEM CONTROL LINE IS ALIGNED ALONG LANDWARD EDGE OF SEAWALL. CHAINAGES ARE PROVIDED IN METRES. SETOUT POINTS ARE PROVIDED TO MAP GRID OF AUSTRALIA 1994 (MGA94) ZONE 58 COORDINATE SYSTEM.

AUSTRALIAN HEIGHT DATUM

A5 FOR CONSTRUCTION

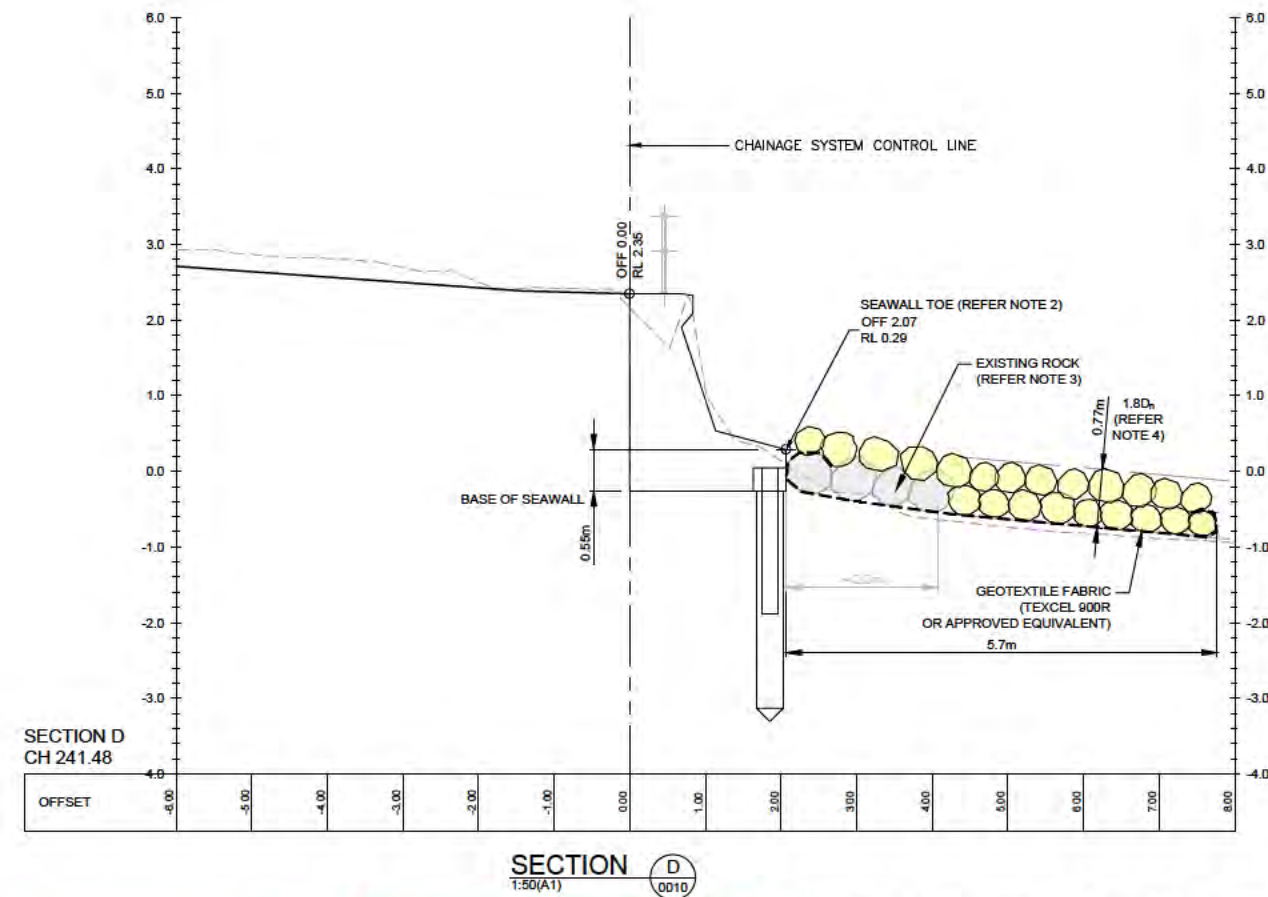
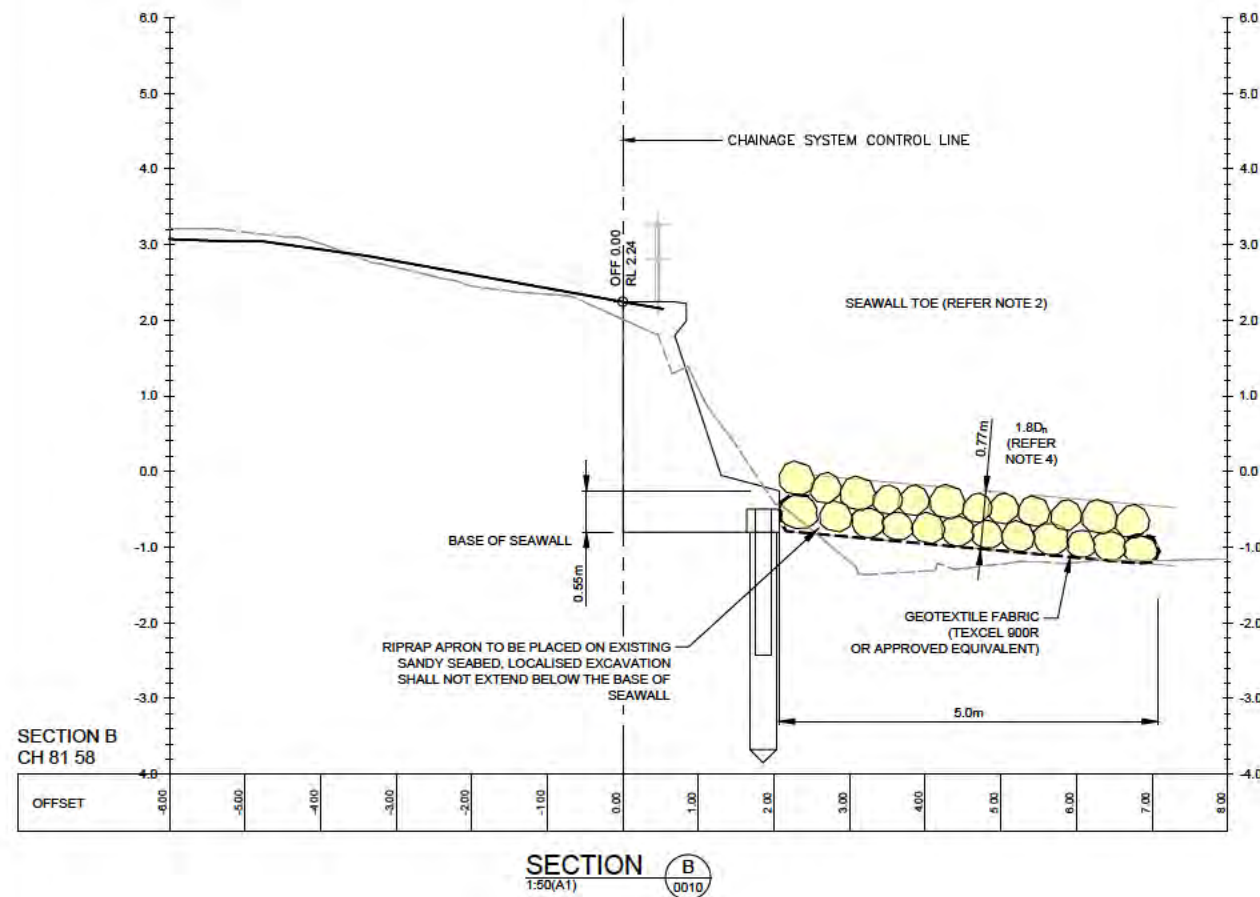
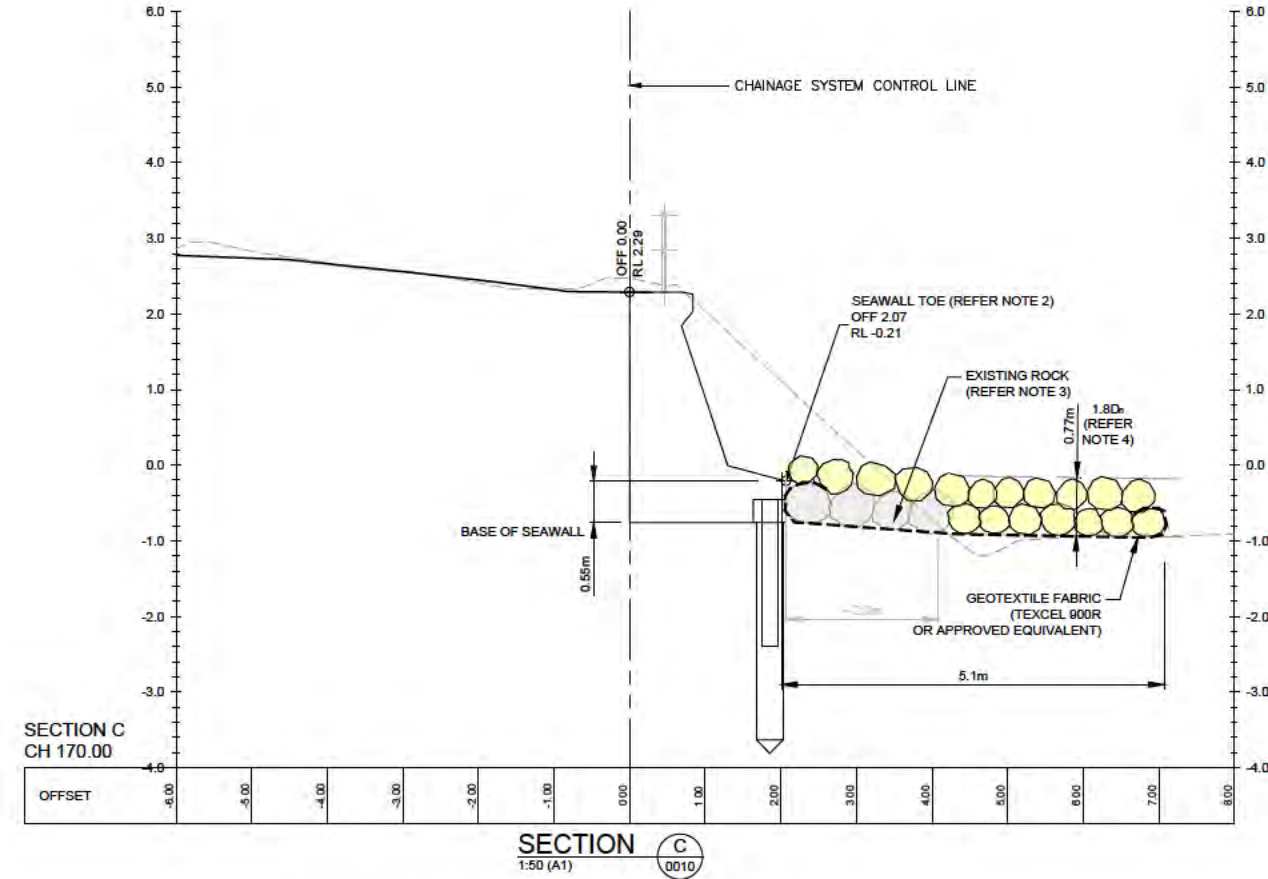
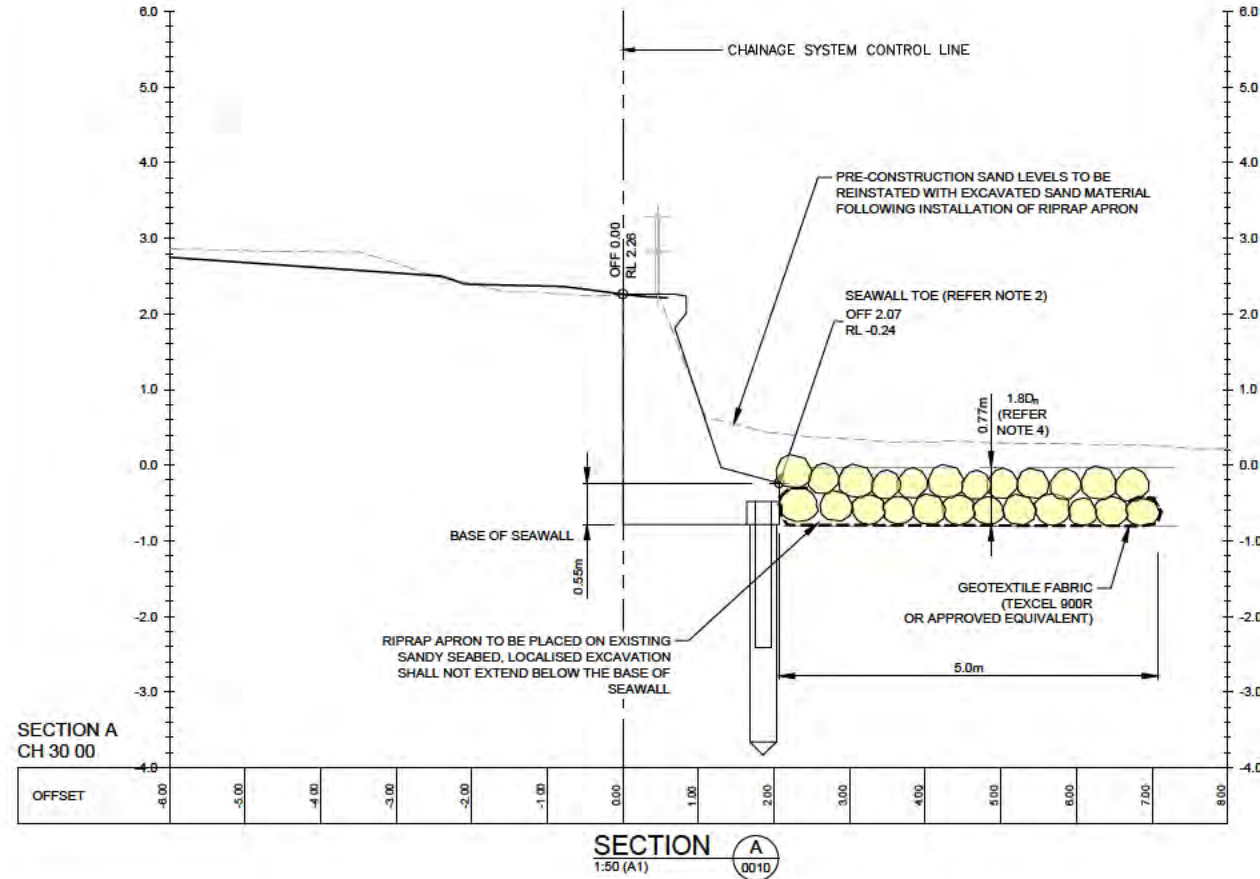
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| P0  | 1 12/2022  | INCORPORATING SHARED PATH | SOB | MP  |     |
| P03 | 19/06/2022 | RE-ISSUED FOR REVIEW      | JPC | MP  |     |
| P02 | 16/06/2022 | ISSUED FOR REVIEW         | JPC | MP  |     |
| P01 | 23/05/2022 | ISSUED FOR REVIEW         | JPC | MP  | GB  |

REVISIONS

CLIENT

PROJECT  
SANDRINGHAM SEAWALL  
REMEDATION WORKSTITLE  
GENERAL ARRANGEMENT

|                                            |                                |                 |                    |
|--------------------------------------------|--------------------------------|-----------------|--------------------|
| DRAWN<br>JPC                               | COORD. SYSTEM<br>MGA 94 GDA 94 | DATUM<br>AND    | DATE<br>24.03.2023 |
| SCALE<br>AS SHOWN                          | REF.<br>PA2711 CIVIL MODEL     |                 |                    |
| DRAWING NO.<br>PA2711-RHD-00-XX-DR-ME-0010 | SUITABILITY<br>A5              | REVIS ON<br>P04 |                    |



- NOTES:**
- ALL LEVELS ARE IN METRES (m) RELATIVE TO AUSTRALIAN HEIGHT DATUM.
  - EXISTING SEAWALL FEATURES AND NEARSHORE SEABED LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO CONSTRUCTION.
  - EXISTING ROCK ALONG TOE OF SEAWALL TO BE CAREFULLY REMOVED TO ALLOW LAYING OF GEOTEXTILE FABRIC. EXISTING ROCK OF SUITABLE SIZE AND QUALITY CAN BE INCORPORATED INTO THE RIPRAP APRON. LOCALISED EXCAVATION SHALL NOT EXTEND BELOW BASE OF SEAWALL.
  - MINIMUM RIPRAP THICKNESS IS 1.8 x D<sub>50</sub> ABOVE BED LEVEL (770mm for SANDSTONE, 630mm FOR BASALT). THE DESIGN GEOMETRY SHOWN IS FOR SANDSTONE.
  - RIPRAP DIMENSIONS SHOWN ARE FOR SANDSTONE (M<sub>50</sub>=177kg AND D<sub>50</sub>=430mm). REFER TO TECHNICAL SPECIFICATION FOR GRADING. SANDSTONE RIPRAP SURFACE IS NOT TO BE USED FOR TRAFFICKING OF EQUIPMENT.
  - IF USING BASALT RIPRAP, M<sub>50</sub>=107kg AND D<sub>50</sub>=350mm. REFER TO TECHNICAL SPECIFICATION FOR GRADING. BASALT RIPRAP SURFACE CAN BE USED FOR TRAFFICKING OF EQUIPMENT.

- LEGEND:**
- LANDSIDE FEATURE TOPOGRAPHIC SURVEY (REFER NOTE 2)
  - LIDAR DATA INTERPOLATED (REFER NOTE 2)



| REV | DATE       | DESCRIPTION             | BY  | CHK | APP |
|-----|------------|-------------------------|-----|-----|-----|
| P01 | 20/03/2023 | ISSUED FOR CONSTRUCTION | SB  | MP  |     |
| P02 | 14/04/2023 | RE-ISSUED FOR REVIEW    | JPC | MP  |     |
| P03 | 23/06/2023 | ISSUED FOR REVIEW       | JPC | MP  | GB  |

REVISIONS

CLIENT



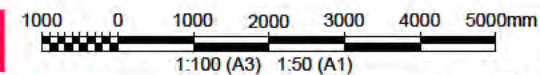
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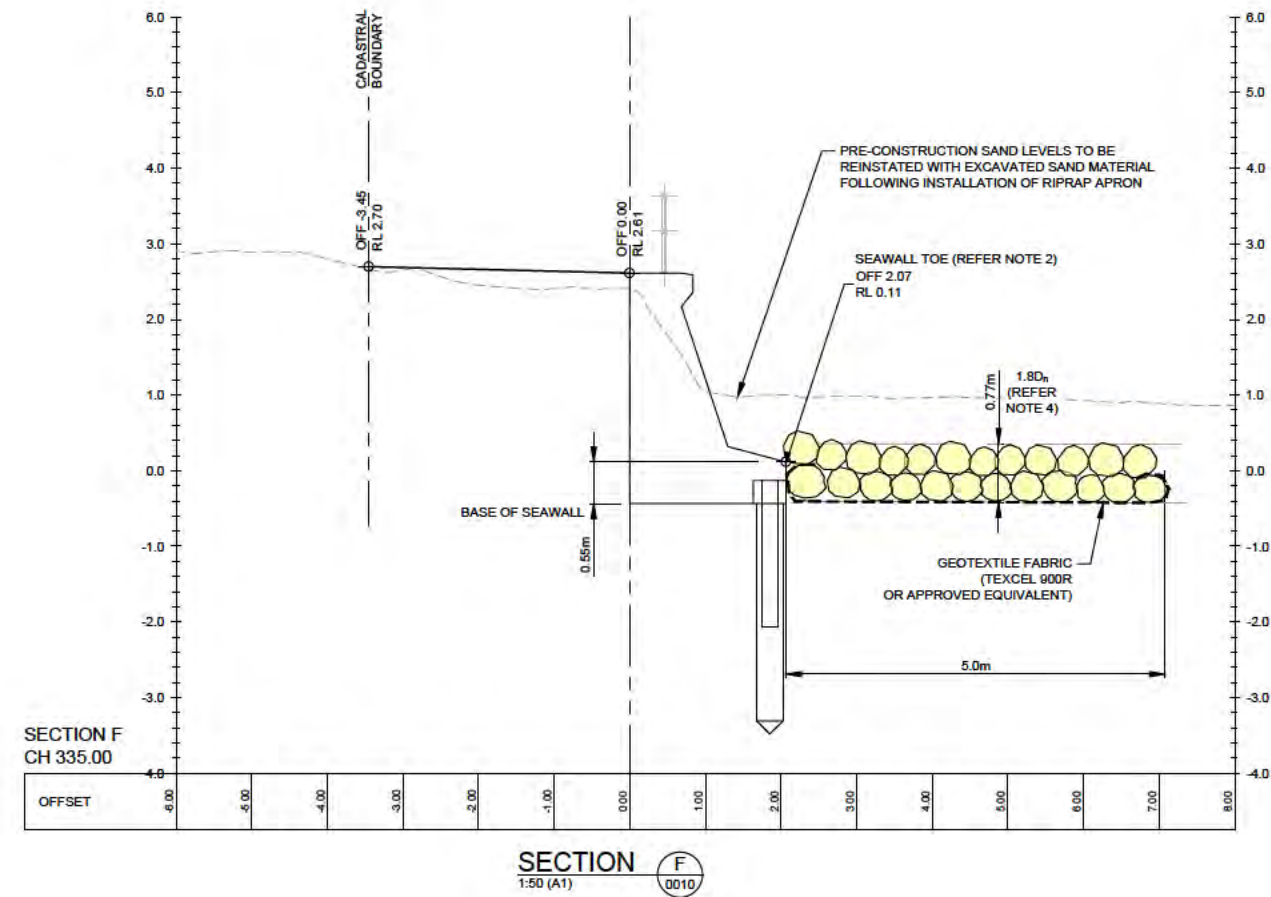
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| SCALE<br>AS SHOWN                          | REF.<br>PA2711 CIVIL MODEL     |                 |                    |
| DRAWING NO.<br>PA2711-RHD-00-XX-DR-ME-0020 | SUITABILITY<br>A5              | REVIS ON<br>P02 |                    |

AUSTRALIAN HEIGHT DATUM A5 FOR CONSTRUCTION





- LEGEND:**
- LANDSIDE FEATURE  
TOPOGRAPHIC SURVEY  
(REFER NOTE 2)
- LIDAR DATA INTERPOLATED  
(REFER NOTE 2)

[illegible]

## REVISIONS

**CLIENT**



PROJECT

SANDRINGHAM SEAWALL  
REMEDIATION WORKS

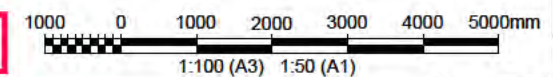
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TYPICAL SECTIONS  
SHEET 2

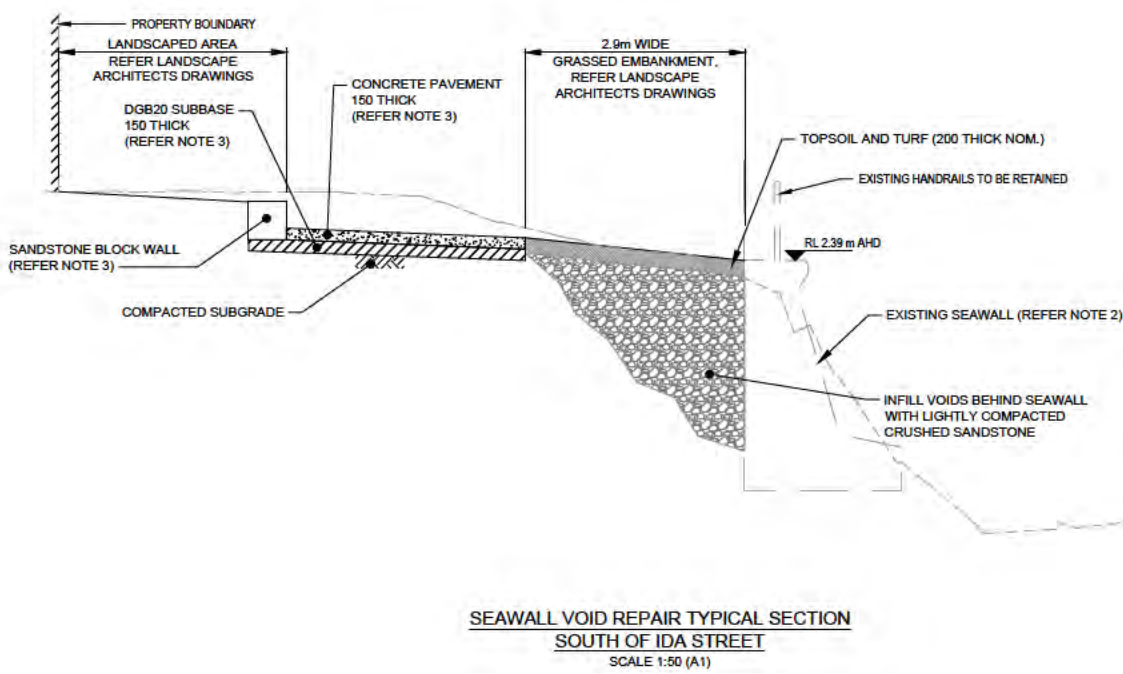
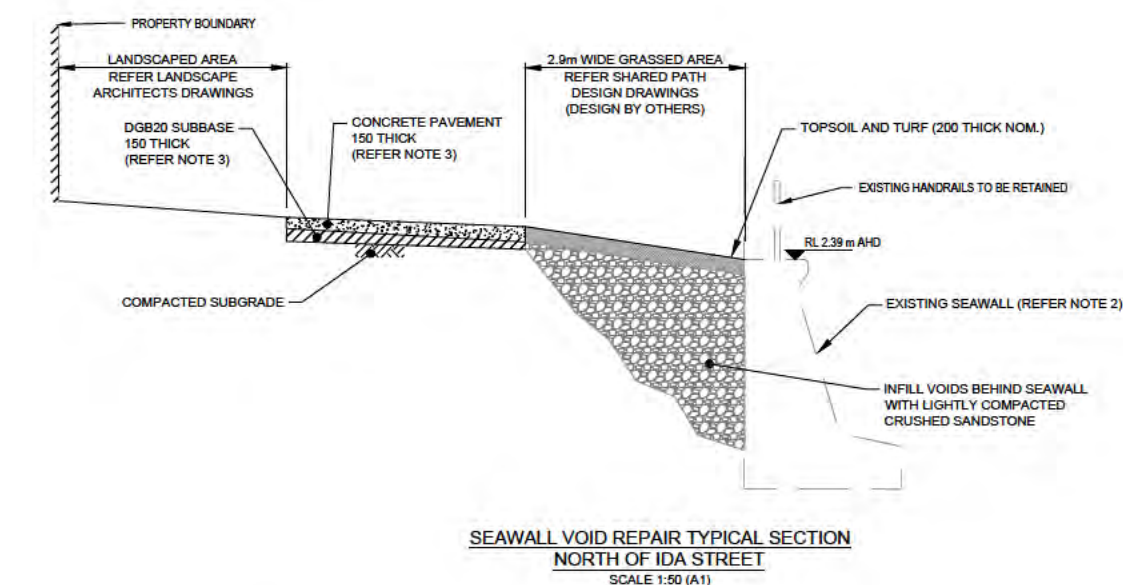


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| DRAWING No.<br>PA2711-RHD-00-XX-DR-ME-0021 |                               | SUITABILITY<br>A5 | REVIS ON<br>P02    |

|                         |    |                  |
|-------------------------|----|------------------|
| AUSTRALIAN HEIGHT DATUM | A5 | FOR CONSTRUCTION |
|-------------------------|----|------------------|



- NOTES:
1. ALL LEVELS ARE IN METRES (m) RELATIVE TO AUSTRALIAN HEIGHT DATUM.
  2. EXISTING SEAWALL FEATURES AND NEARSHORE SEABED LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO CONSTRUCTION.
  3. CYCLEWAY DESIGN SHOWN IS INDICATIVE ONLY AND WILL BE COMPLETED BY OTHERS, REFER TO SHARED PATH DESIGN DRAWINGS (DESIGN BY OTHERS).



| REV | DATE       | DESCRIPTION               | BY  | CHK | APP |
|-----|------------|---------------------------|-----|-----|-----|
| PS  | 2 03/2022  | ISSUED FOR CONSTRUCTION   | BE  | MP  |     |
| P01 | 1 10/2022  | INCORPORATING SHARED PATH | SOB | MP  |     |
| P02 | 18/08/2022 | RE-ISSUED FOR REVIEW      | JPC | MP  |     |
| P03 | -          | NOT ISSUED                | -   | -   | -   |

REVISIONS

CLIENT



PROJECT  
SANDRINGHAM SEAWALL  
REMEDIATION WORKS

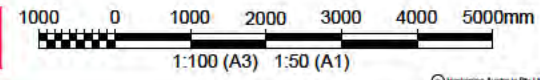
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DAMAGED CYCLEWAY  
VOID REPAIR  
TYPICAL SECTIONS



|                   |                               |                   |                    |
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AUSTRALIAN HEIGHT DATUM

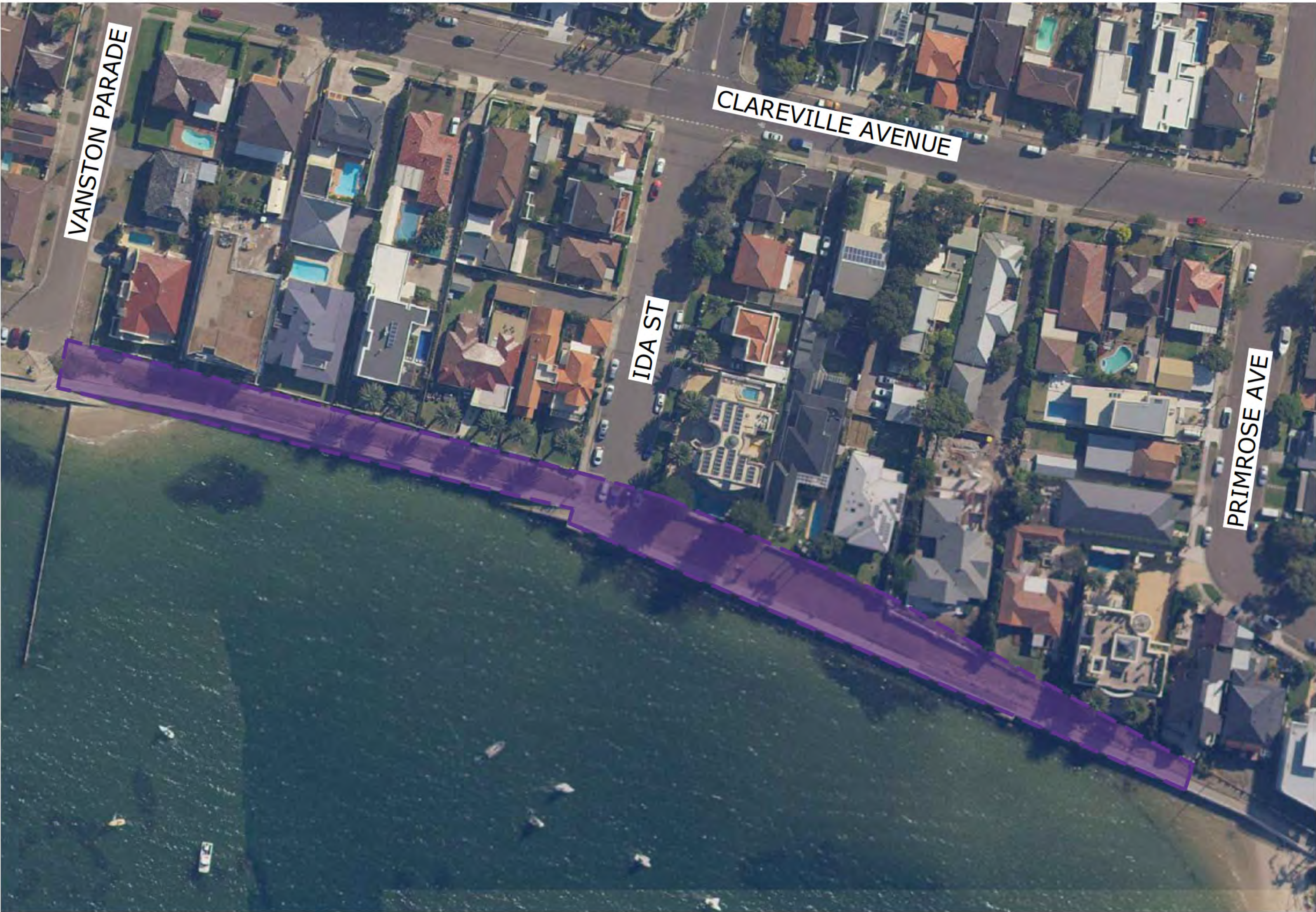
A5 FOR CONSTRUCTION



BAYSIDE COUNCIL

# SHARED PATH, SANDRINGHAM

SANDRINGHAM NSW 2219



LOCATION PLAN  
N.T.S.

| DRAWING SCHEDULE |                                      |
|------------------|--------------------------------------|
| Sheet Number     | Sheet Title                          |
| 001              | COVER SHEET                          |
| 401              | SITEWORKS - PLAN 1 OF 3              |
| 402              | SITEWORKS - PLAN 2 OF 3              |
| 403              | SITEWORKS - PLAN 3 OF 3              |
| 431              | LONGITUDINAL SECTIONS - SHEET 1 OF 2 |
| 432              | LONGITUDINAL SECTIONS - SHEET 2 OF 2 |
| 441              | CROSS SECTIONS - SHEET 1 OF 2        |
| 442              | CROSS SECTIONS - SHEET 2 OF 2        |
| 611              | TYPICAL SECTIONS                     |

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

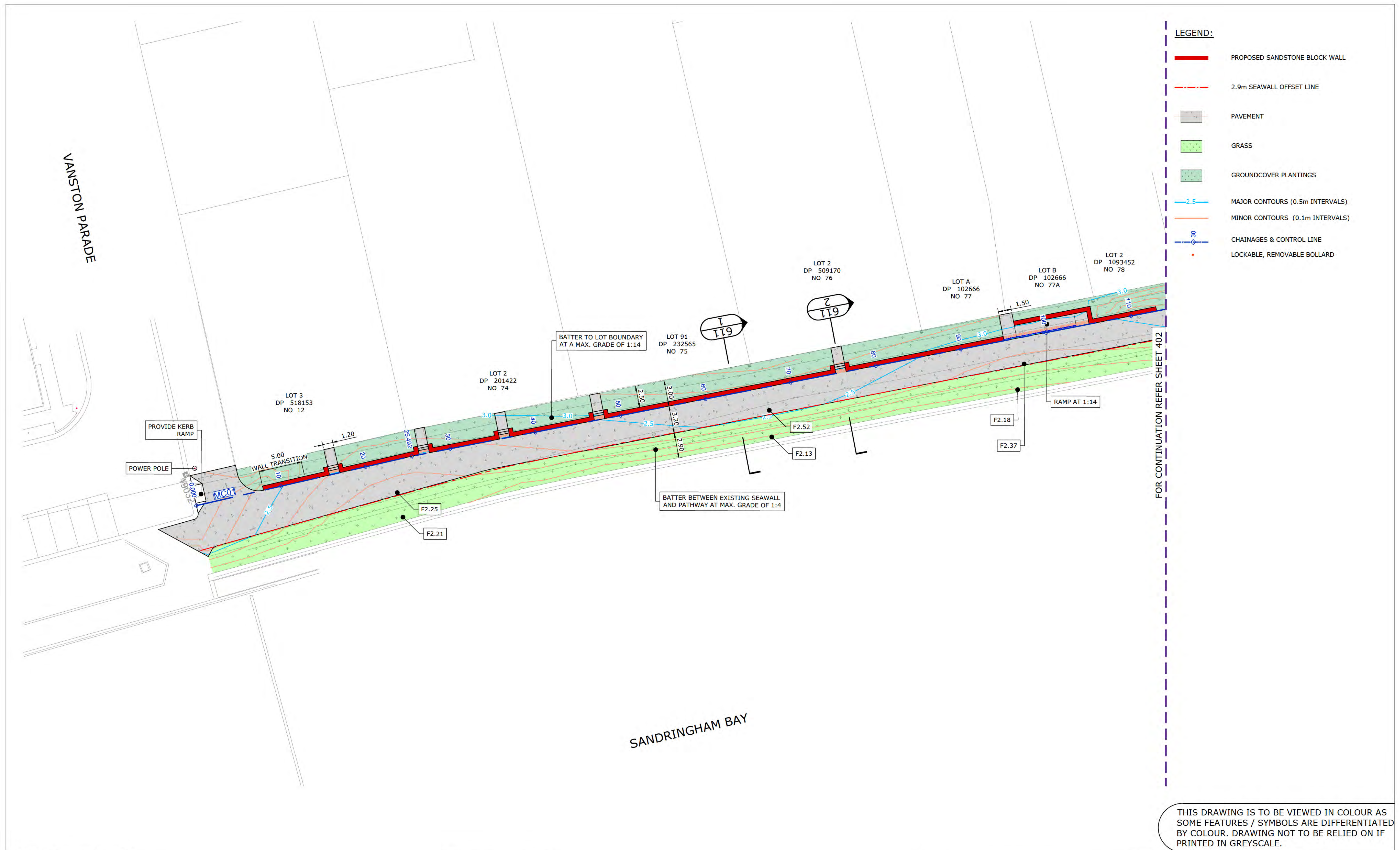
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| 100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING |                                                |          |      |      |                             |
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|                                                  |                                                |          |      |      | DATUM: ALL LEVELS TO A.H.D. |
|                                                  |                                                |          |      |      | SCALE: N.T.S                |
|                                                  |                                                |          |      |      | SURVEYED:?                  |
|                                                  |                                                |          |      |      | SURVEY DATE:?               |
|                                                  |                                                |          |      |      | APPROVED / PROJECT LEADER   |
| A                                                | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   |                             |
| REV                                              | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |                             |



**PUBLIC UTILITIES:**  
THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.



| NOT FOR CONSTRUCTION             |                |                |          |
|----------------------------------|----------------|----------------|----------|
| BAYSIDE COUNCIL                  |                |                |          |
| SANDRINGHAM NSW 2219             |                |                |          |
| SANDRINGHAM CYCLEWAY             |                |                |          |
| LOCATION PLAN & DRAWING SCHEDULE |                |                |          |
| FILENAME:                        | PROJECT NUMBER | DRAWING NUMBER | REVISION |
| 221703_001_COV.DWG               | 221703         | 001            | A        |



- LEGEND:**
- PROPOSED SANDSTONE BLOCK WALL
  - 2.9m SEAWALL OFFSET LINE
  - PAVEMENT
  - GRASS
  - GROUNDCOVER PLANTINGS
  - MAJOR CONTOURS (0.5m INTERVALS)
  - MINOR CONTOURS (0.1m INTERVALS)
  - CHAINAGES & CONTROL LINE
  - LOCKABLE, REMOVABLE BOLLARD

02412100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

1:200 (A1); 1:400 (A3)

SHEET SIZE  
A1

COORDS: GDA94 MGA94 Z56  
DATUM: ALL LEVELS TO A.H.D.  
SCALE: 1:200

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

|     |                                                |          |      |      |                           |
|-----|------------------------------------------------|----------|------|------|---------------------------|
| D   | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   | SURVEYED:?                |
| C   | REVISED CONCEPT LAYOUT                         | 25.11.22 | NS   | NS   | SURVEY DATE:?             |
| B   | POWER POLE & WALL RETURN ADDED                 | 04.10.22 | NS   | NS   | APPROVED / PROJECT LEADER |
| A   | DRAFT CYCLEWAY PLAN ALIGNMENT                  | 27.09.22 | NS   | NS   |                           |
| REV | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |                           |

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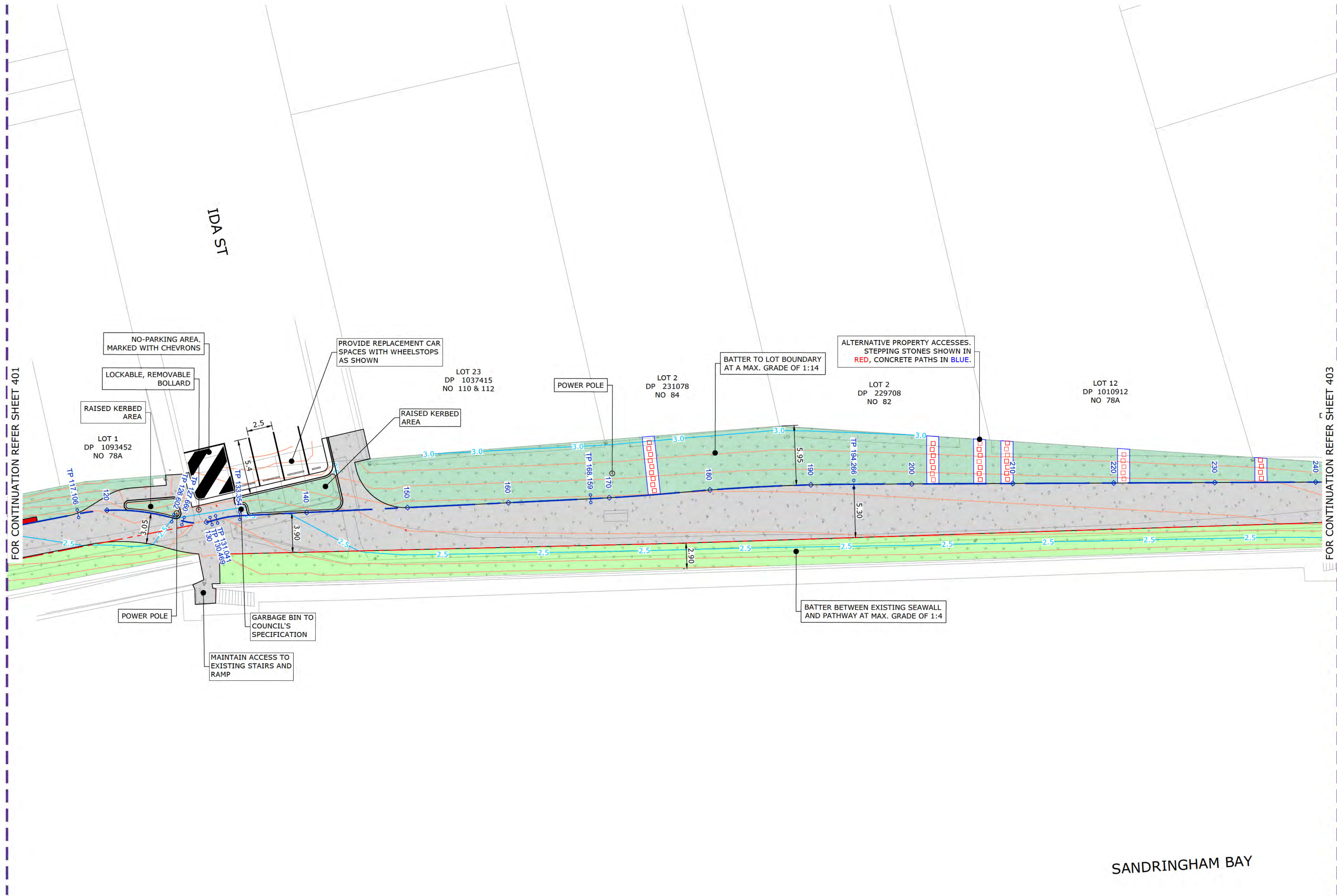
NOT FOR CONSTRUCTION

BAYSIDE COUNCIL

SANDRINGHAM NSW 2219  
SANDRINGHAM CYCLEWAY  
SITEWORKS  
PLAN 1 OF 3

FILENAME: 221703\_401\_STW.DWG  
PROJECT NUMBER: 221703  
DRAWING NUMBER: 401  
REVISION: D

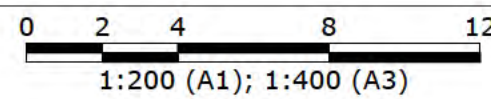
T:\2022\221703 SANDRINGHAM CYCLEWAY - BAYSIDE COUNCIL\4\_WORKING\1 CAD\1 DWG\221703\_401\_STW.DWG -401-STW- (02-12-22 6:21:51PM)



- LEGEND:**
- PROPOSED SANDSTONE BLOCK WALL
  - 2.9m SEAWALL OFFSET LINE
  - PAVEMENT
  - GRASS
  - GROUND COVER PLANTINGS
  - MAJOR CONTOURS (0.5m INTERVALS)
  - MINOR CONTOURS (0.1m INTERVALS)
  - CHAINAGES & CONTROL LINE
  - LOCKABLE, REMOVABLE BOLLARD

FOR CONTINUATION REFER SHEET 401

FOR CONTINUATION REFER SHEET 403



100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

SHEET SIZE  
**A1**

|     |                                                |          |      |      |                             |
|-----|------------------------------------------------|----------|------|------|-----------------------------|
|     |                                                |          |      |      | COORDS: GDA94 MGA94 Z56     |
|     |                                                |          |      |      | DATUM: ALL LEVELS TO A.H.D. |
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| D   | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   | SURVEYED:?                  |
| C   | REVISED CONCEPT LAYOUT                         | 25.11.22 | NS   | NS   | SURVEY DATE:?               |
| B   | POWER POLE & WALL RETURN ADDED                 | 04.10.22 | NS   | NS   | APPROVED / PROJECT LEADER   |
| A   | DRAFT CYCLEWAY PLAN ALIGNMENT                  | 27.09.22 | NS   | NS   |                             |
| REV | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |                             |



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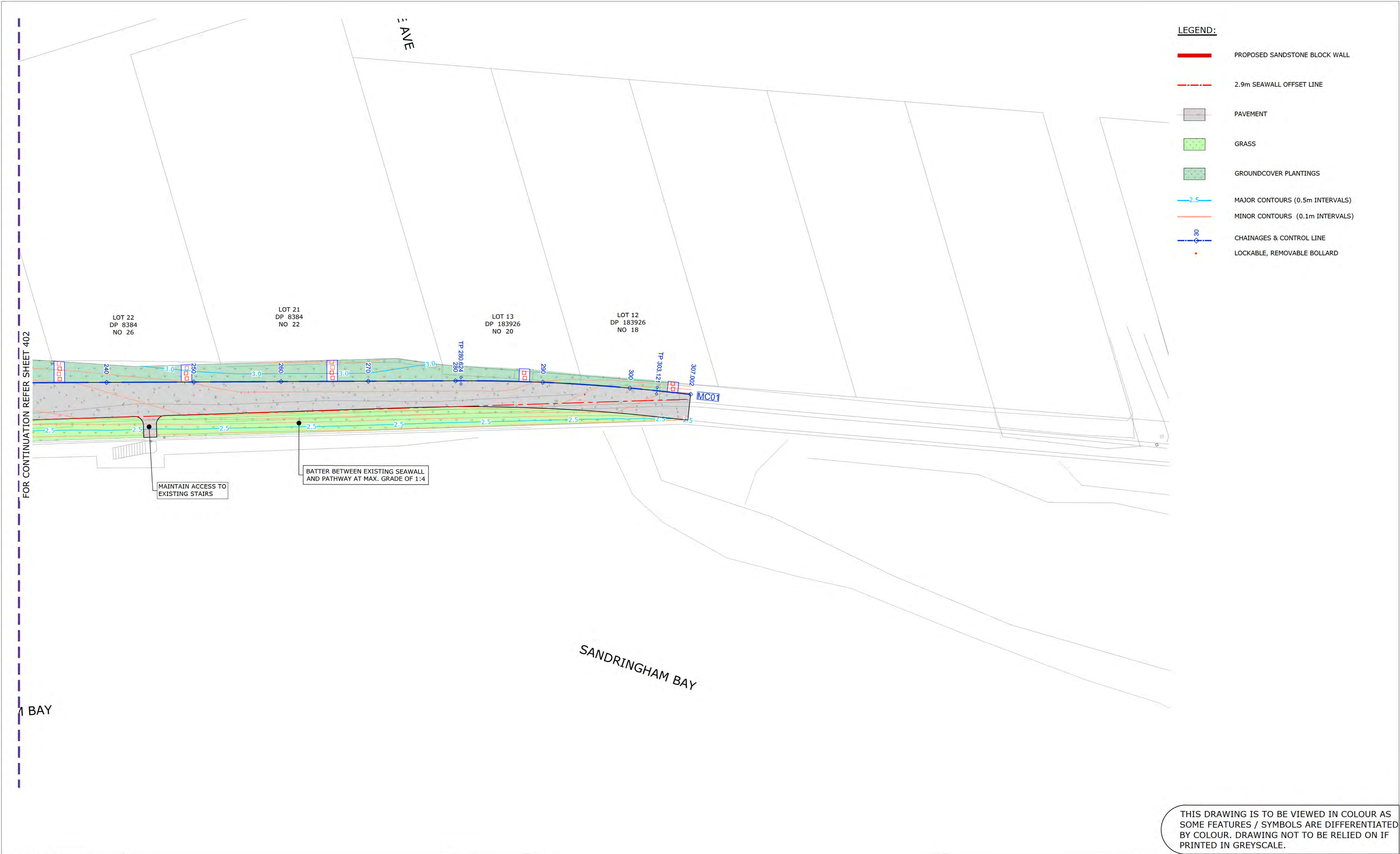
**NOT FOR CONSTRUCTION**

**BAYSIDE COUNCIL**

SANDRINGHAM NSW 2219  
SANDRINGHAM CYCLEWAY  
SITEWORKS  
PLAN 2 OF 3

|                    |                |                |          |
|--------------------|----------------|----------------|----------|
| FILENAME:          | PROJECT NUMBER | DRAWING NUMBER | REVISION |
| 221703_402_STW.DWG | 221703         | 402            | D        |

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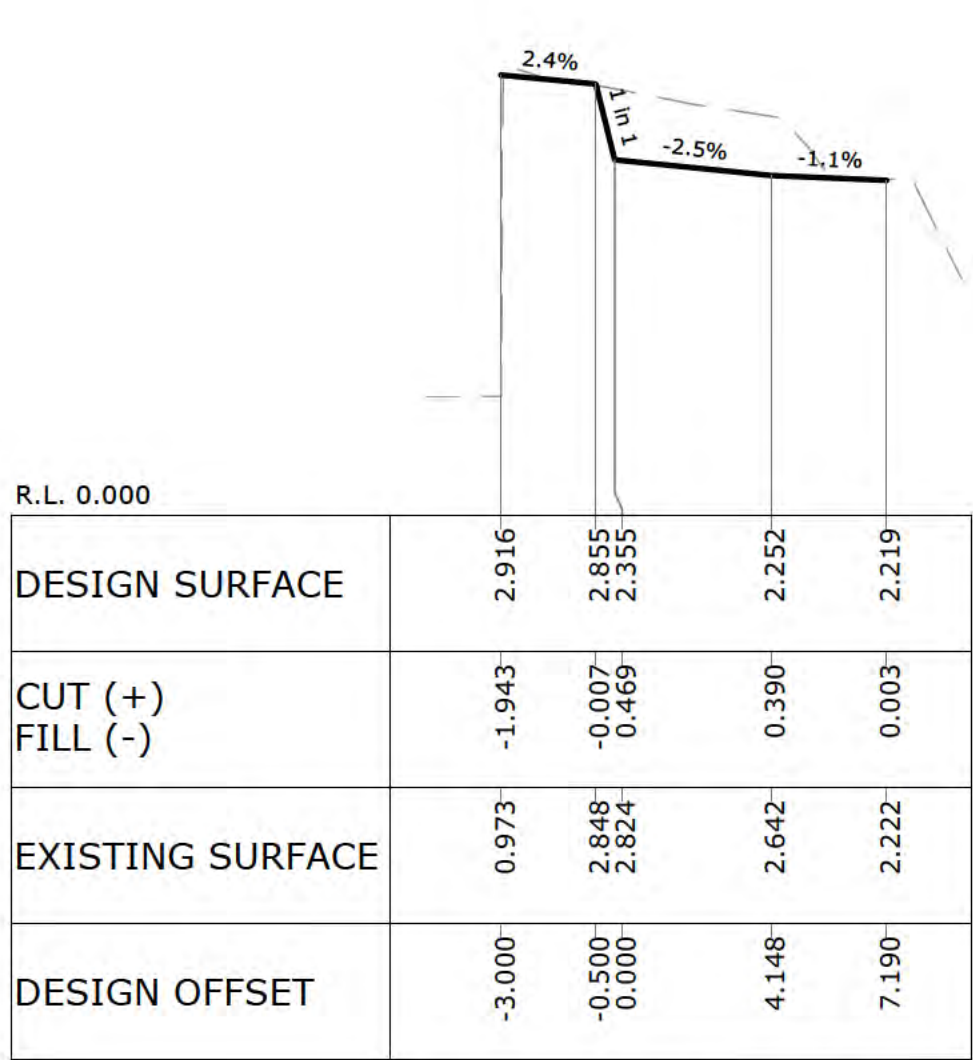


| REV | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |                           |
|-----|------------------------------------------------|----------|------|------|---------------------------|
| D   | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   | SURVEYED:?                |
| C   | REVISED CONCEPT LAYOUT                         | 25.11.22 | NS   | NS   | SURVEY DATE:?             |
| B   | POWER POLE & WALL RETURN ADDED                 | 04.10.22 | NS   | NS   | APPROVED / PROJECT LEADER |
| A   | DRAFT CYCLEWAY PLAN ALIGNMENT                  | 27.09.22 | NS   | NS   |                           |

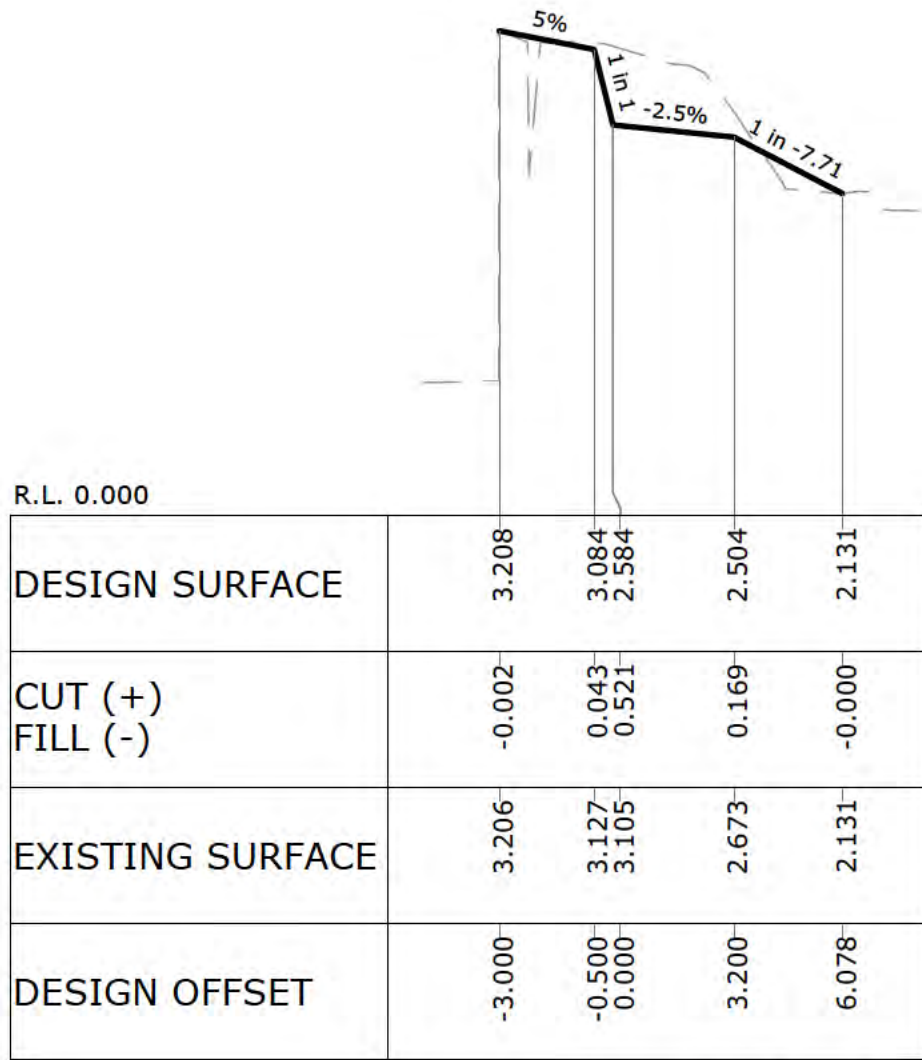




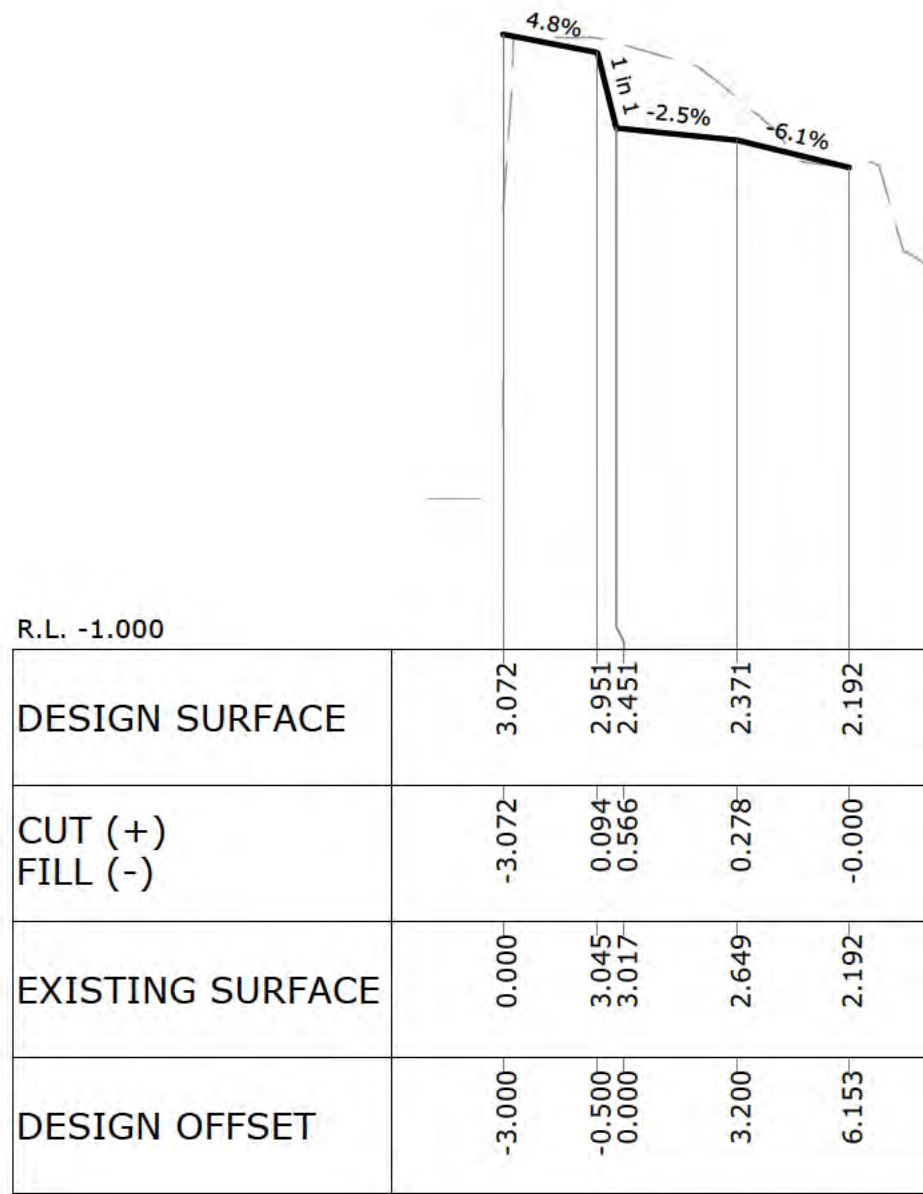




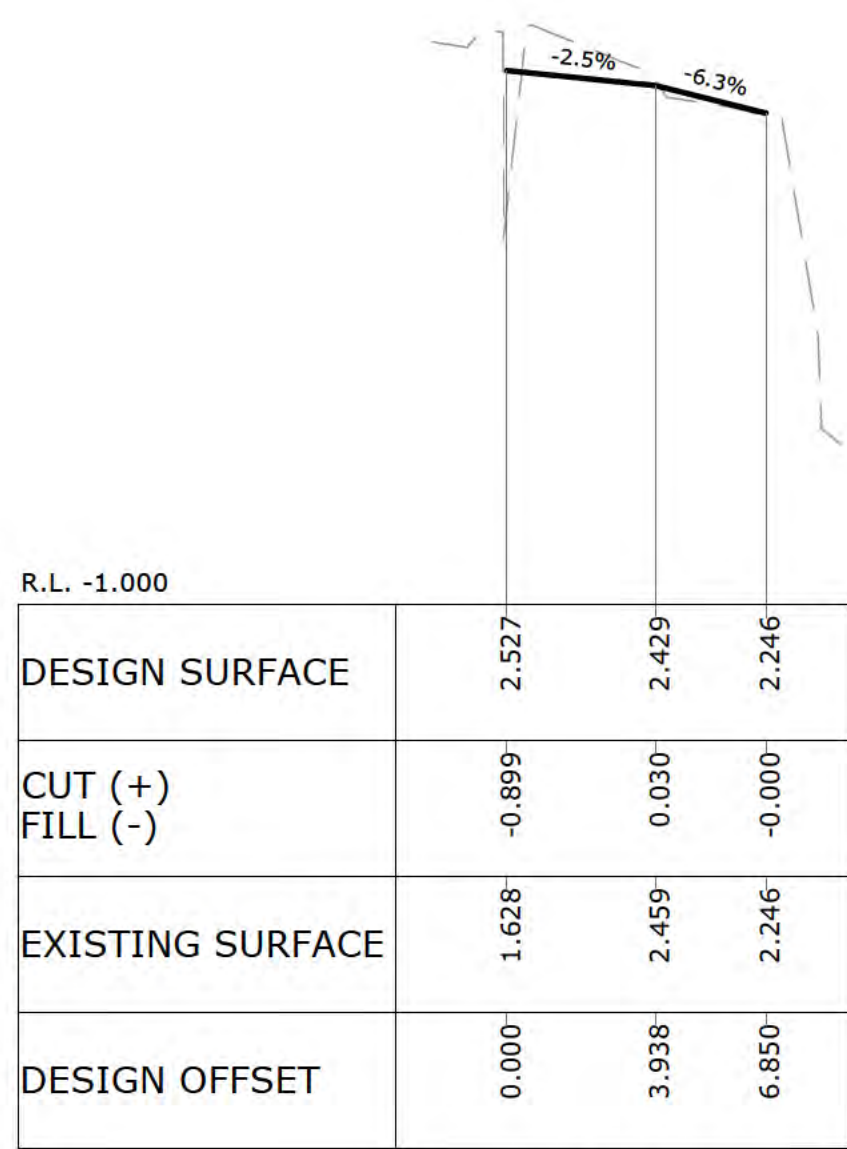
CH. 20.000



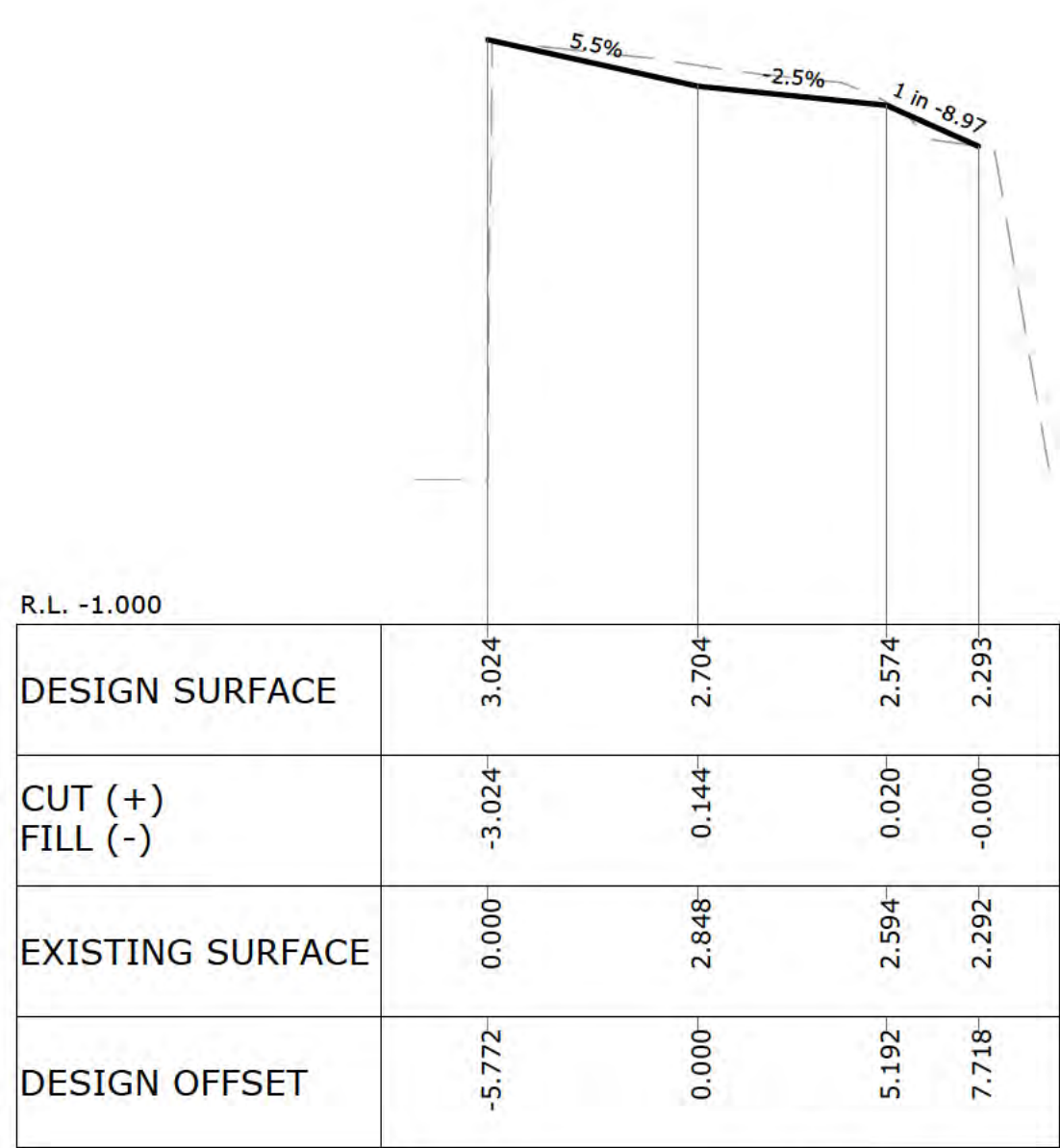
CH. 60.000



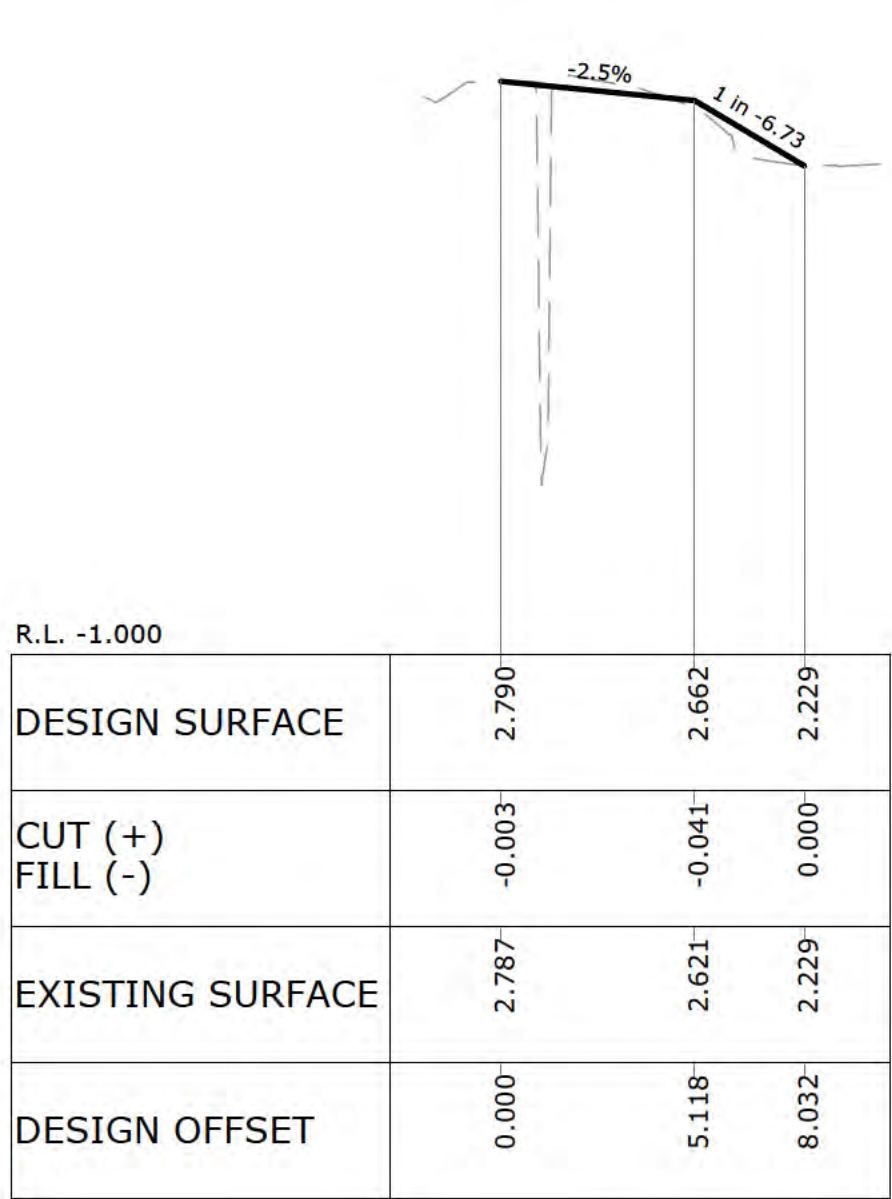
CH. 100.000



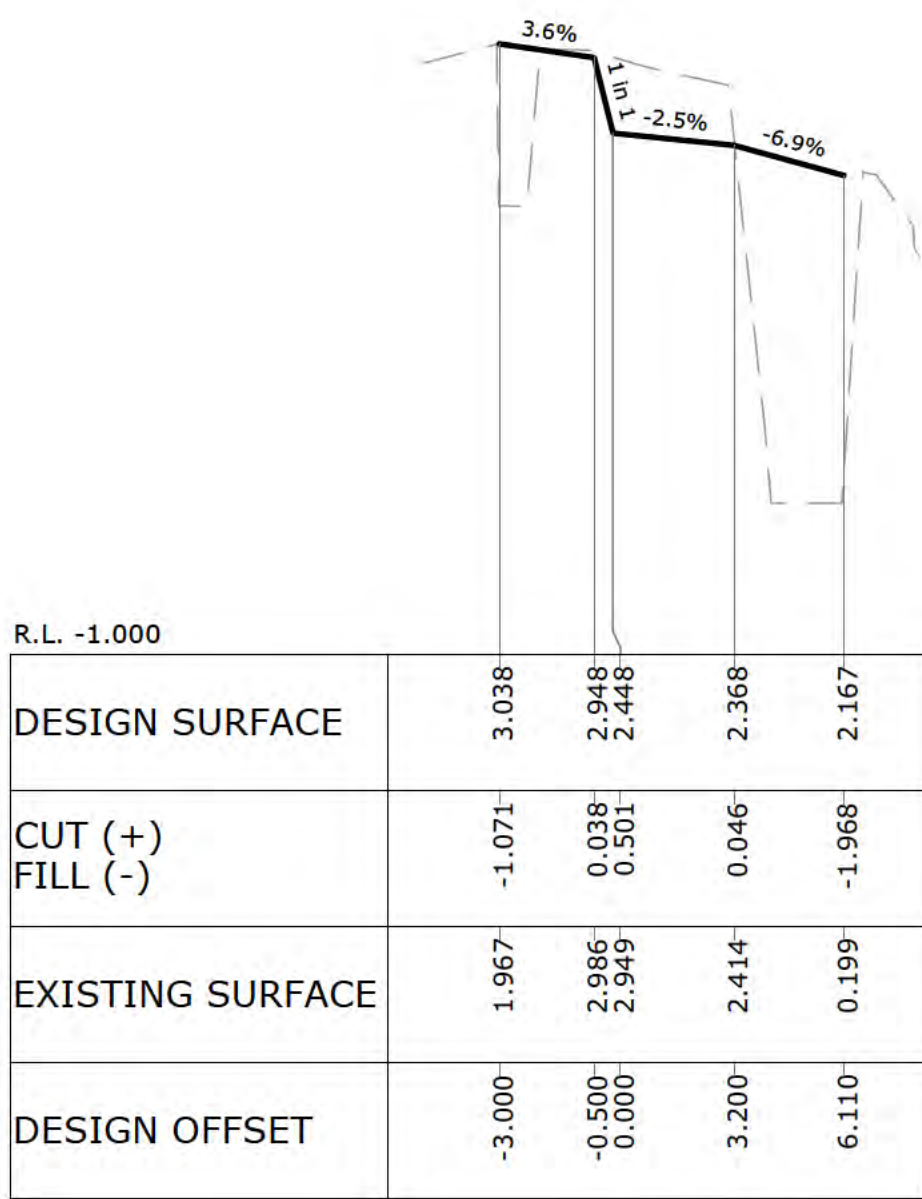
CH. 140.000



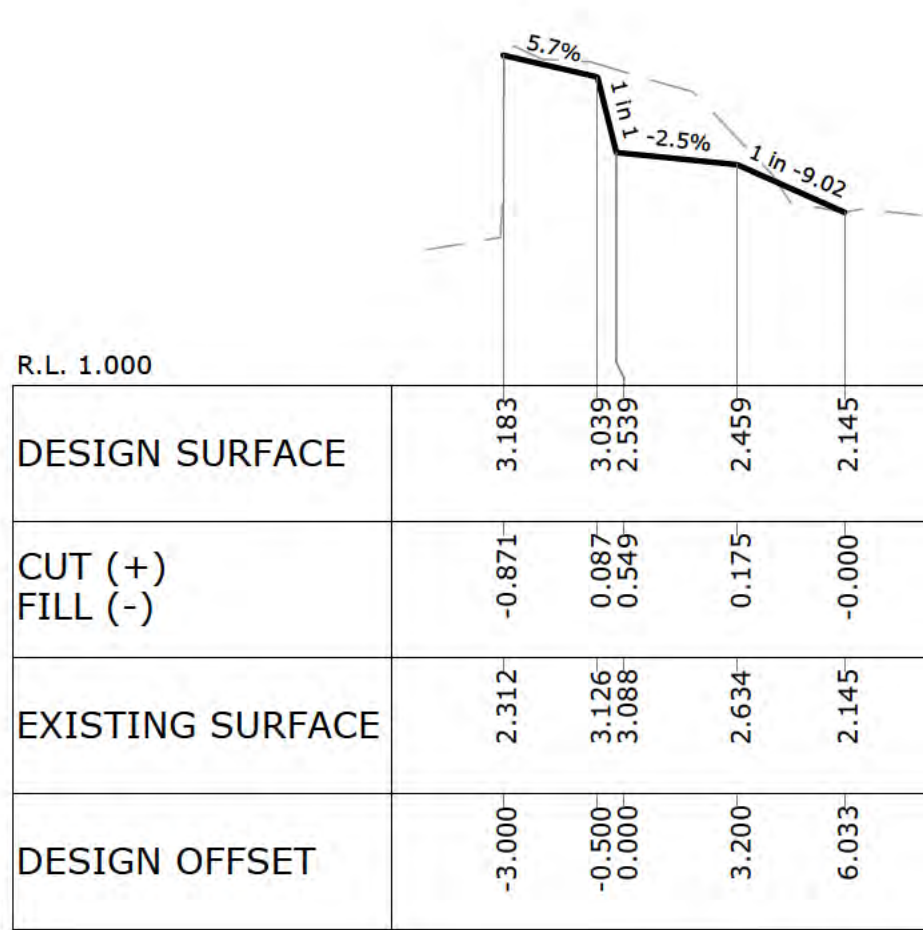
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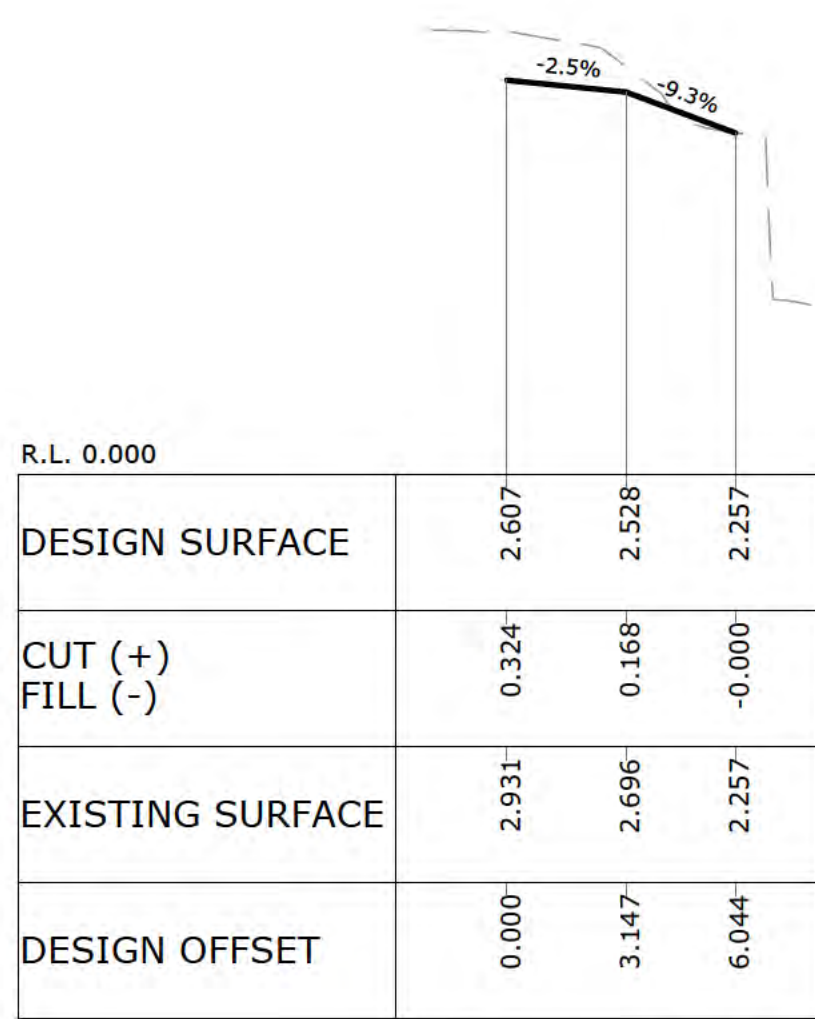
CH. 0.000



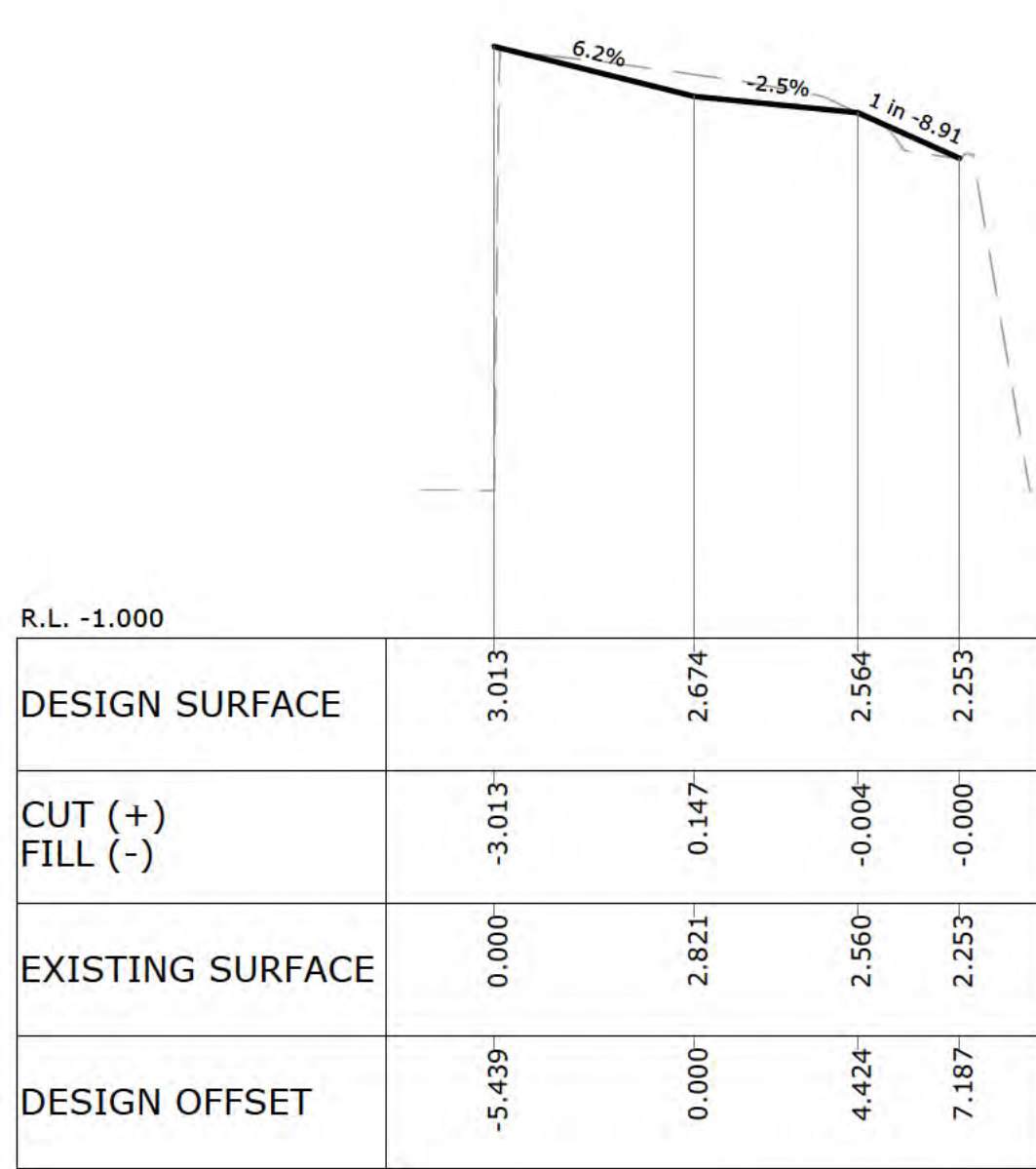
CH. 40.000



CH. 80.000

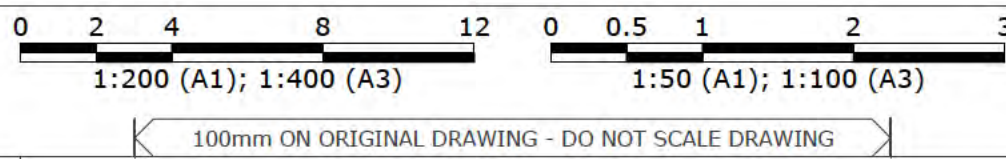


CH. 120.000



CH. 160.000

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SHEET SIZE  
A1

|     |                                                |          |      |      |  |                             |
|-----|------------------------------------------------|----------|------|------|--|-----------------------------|
|     |                                                |          |      |      |  | COORDS: GDA94 MGA94 Z56     |
|     |                                                |          |      |      |  | DATUM: ALL LEVELS TO A.H.D. |
|     |                                                |          |      |      |  | SCALE: 1:200 HORIZ.         |
|     |                                                |          |      |      |  | 1:50 VERT.                  |
|     |                                                |          |      |      |  | SURVEYED:?                  |
|     |                                                |          |      |      |  | SURVEY DATE:?               |
|     |                                                |          |      |      |  | APPROVED / PROJECT LEADER   |
| A   | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   |  |                             |
| REV | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |  |                             |

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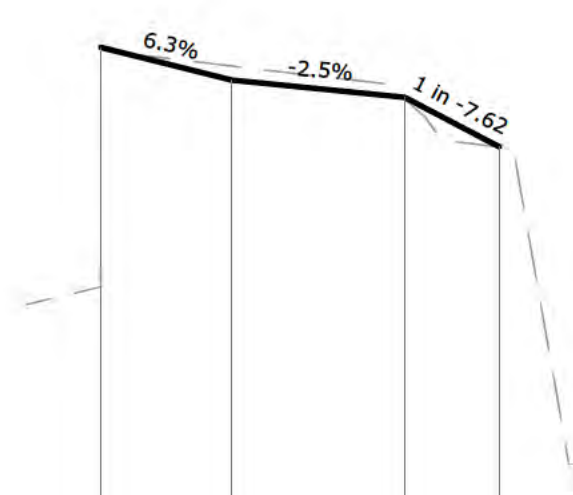
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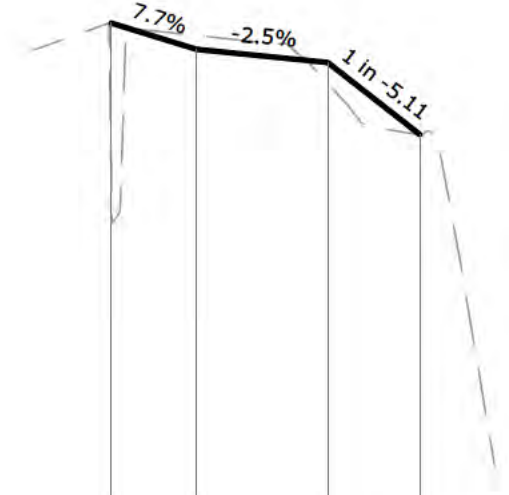
SANDRINGHAM NSW 2219  
SANDRINGHAM CYCLEWAY  
CROSS SECTIONS  
SHEET 1 OF 2

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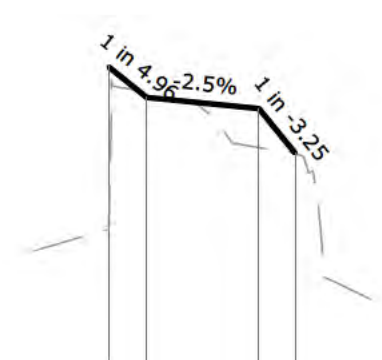
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| R.L. -1.000         |        |       |        |        |
| DESIGN SURFACE      | 2.981  | 2.764 | 2.650  | 2.321  |
| CUT (+)<br>FILL (-) | -0.004 | 0.093 | -0.010 | -0.000 |
| EXISTING SURFACE    | 2.976  | 2.857 | 2.640  | 2.321  |
| DESIGN OFFSET       | -3.452 | 0.000 | 4.582  | 7.083  |

CH. 220.000



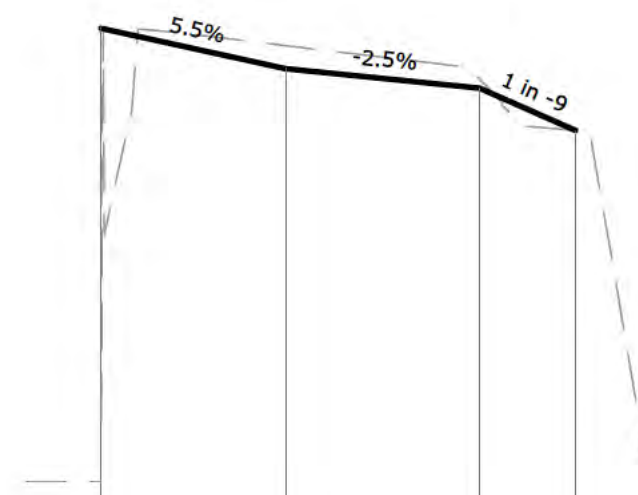
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|---------------------|--------|-------|--------|-------|
| R.L. -1.000         |        |       |        |       |
| DESIGN SURFACE      | 3.104  | 2.930 | 2.843  | 2.364 |
| CUT (+)<br>FILL (-) | -1.053 | 0.093 | -0.136 | 0.000 |
| EXISTING SURFACE    | 2.051  | 3.023 | 2.707  | 2.364 |
| DESIGN OFFSET       | -2.254 | 0.000 | 3.467  | 5.914 |

CH. 260.000



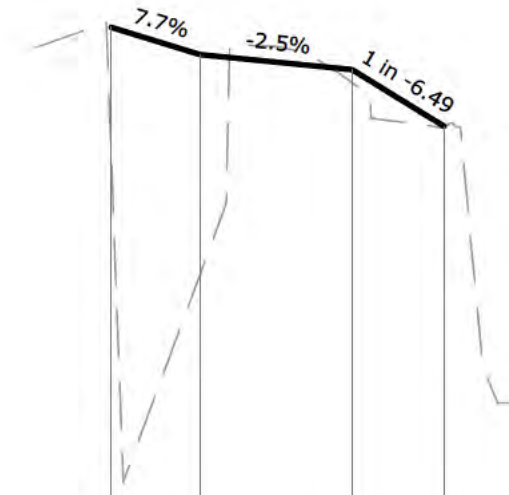
|                     |        |       |        |        |
|---------------------|--------|-------|--------|--------|
| R.L. 0.000          |        |       |        |        |
| DESIGN SURFACE      | 2.957  | 2.755 | 2.681  | 2.387  |
| CUT (+)<br>FILL (-) | -1.070 | 0.032 | -0.257 | -0.001 |
| EXISTING SURFACE    | 1.887  | 2.787 | 2.424  | 2.387  |
| DESIGN OFFSET       | -1.003 | 0.000 | 2.969  | 3.924  |

CH. 300.000



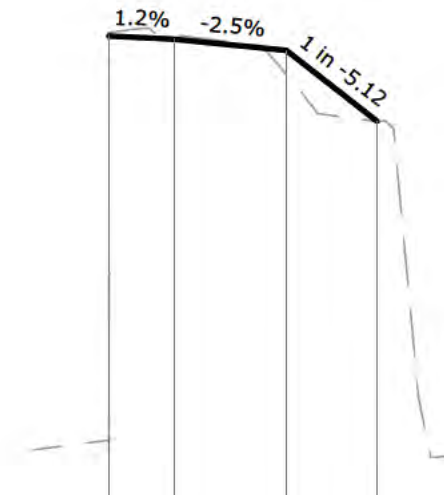
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| R.L. -1.000         |        |       |       |       |
| DESIGN SURFACE      | 3.001  | 2.734 | 2.606 | 2.325 |
| CUT (+)<br>FILL (-) | -3.001 | 0.153 | 0.058 | 0.000 |
| EXISTING SURFACE    | 0.000  | 2.887 | 2.664 | 2.325 |
| DESIGN OFFSET       | -4.874 | 0.000 | 5.140 | 7.668 |

CH. 200.000



|                     |        |        |        |        |
|---------------------|--------|--------|--------|--------|
| R.L. -1.000         |        |        |        |        |
| DESIGN SURFACE      | 3.008  | 2.828  | 2.727  | 2.350  |
| CUT (+)<br>FILL (-) | -0.885 | -1.456 | -0.086 | -0.000 |
| EXISTING SURFACE    | 2.123  | 1.372  | 2.642  | 2.350  |
| DESIGN OFFSET       | -2.344 | 0.000  | 4.025  | 6.472  |

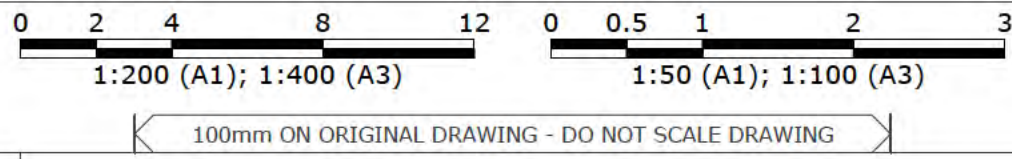
CH. 240.000



|                     |        |       |        |       |
|---------------------|--------|-------|--------|-------|
| R.L. -1.000         |        |       |        |       |
| DESIGN SURFACE      | 2.950  | 2.930 | 2.855  | 2.384 |
| CUT (+)<br>FILL (-) | -2.668 | 0.026 | -0.159 | 0.000 |
| EXISTING SURFACE    | 0.282  | 2.955 | 2.697  | 2.384 |
| DESIGN OFFSET       | -1.728 | 0.000 | 2.970  | 5.380 |

CH. 280.000

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SHEET SIZE  
**A1**

|     |                                                |          |      |      |  |                             |
|-----|------------------------------------------------|----------|------|------|--|-----------------------------|
|     |                                                |          |      |      |  | COORDS: GDA94 MGA94 Z56     |
|     |                                                |          |      |      |  | DATUM: ALL LEVELS TO A.H.D. |
|     |                                                |          |      |      |  | SCALE: 1:200 HORIZ.         |
|     |                                                |          |      |      |  | 1:50 VERT.                  |
|     |                                                |          |      |      |  | SURVEYED:?                  |
|     |                                                |          |      |      |  | SURVEY DATE:?               |
|     |                                                |          |      |      |  | APPROVED / PROJECT LEADER   |
| A   | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   |  |                             |
| REV | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |  |                             |

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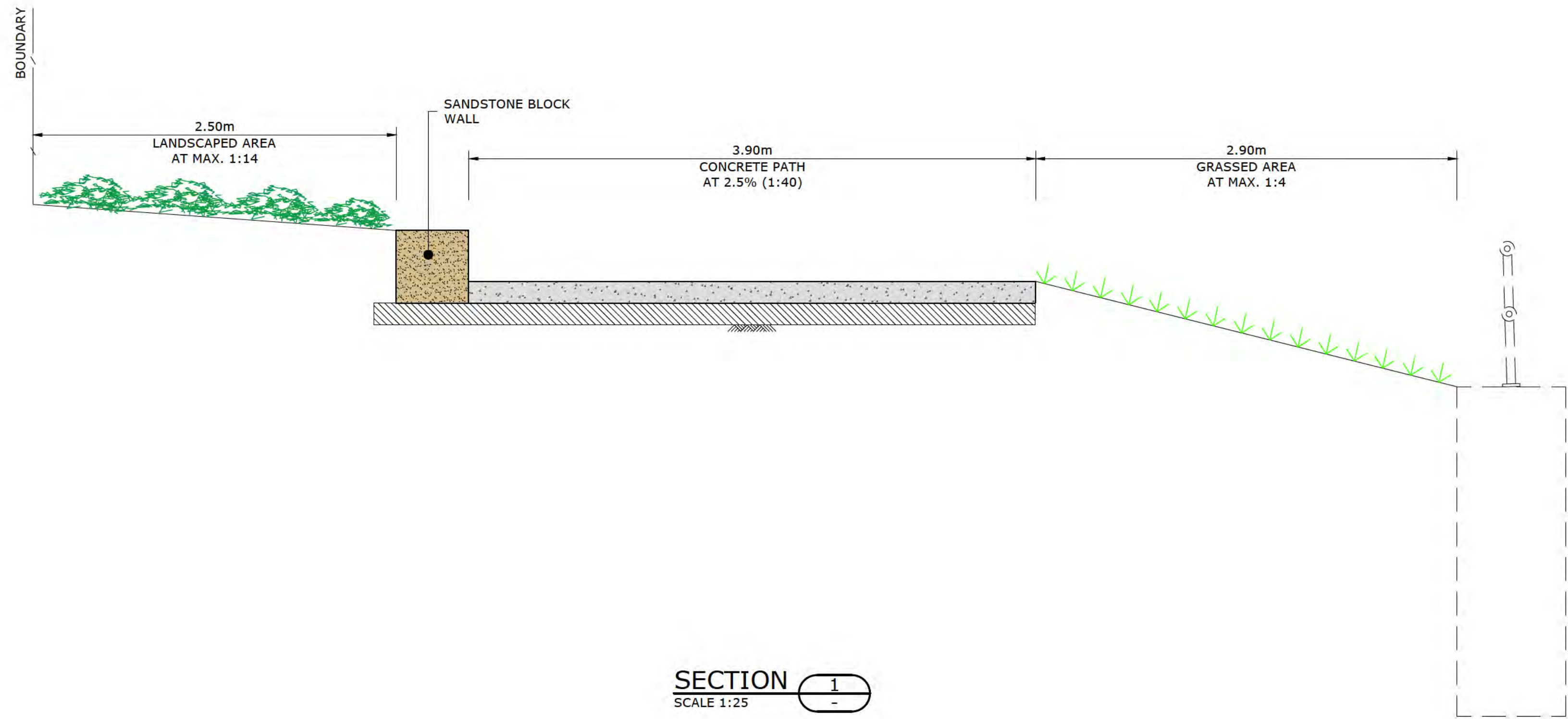
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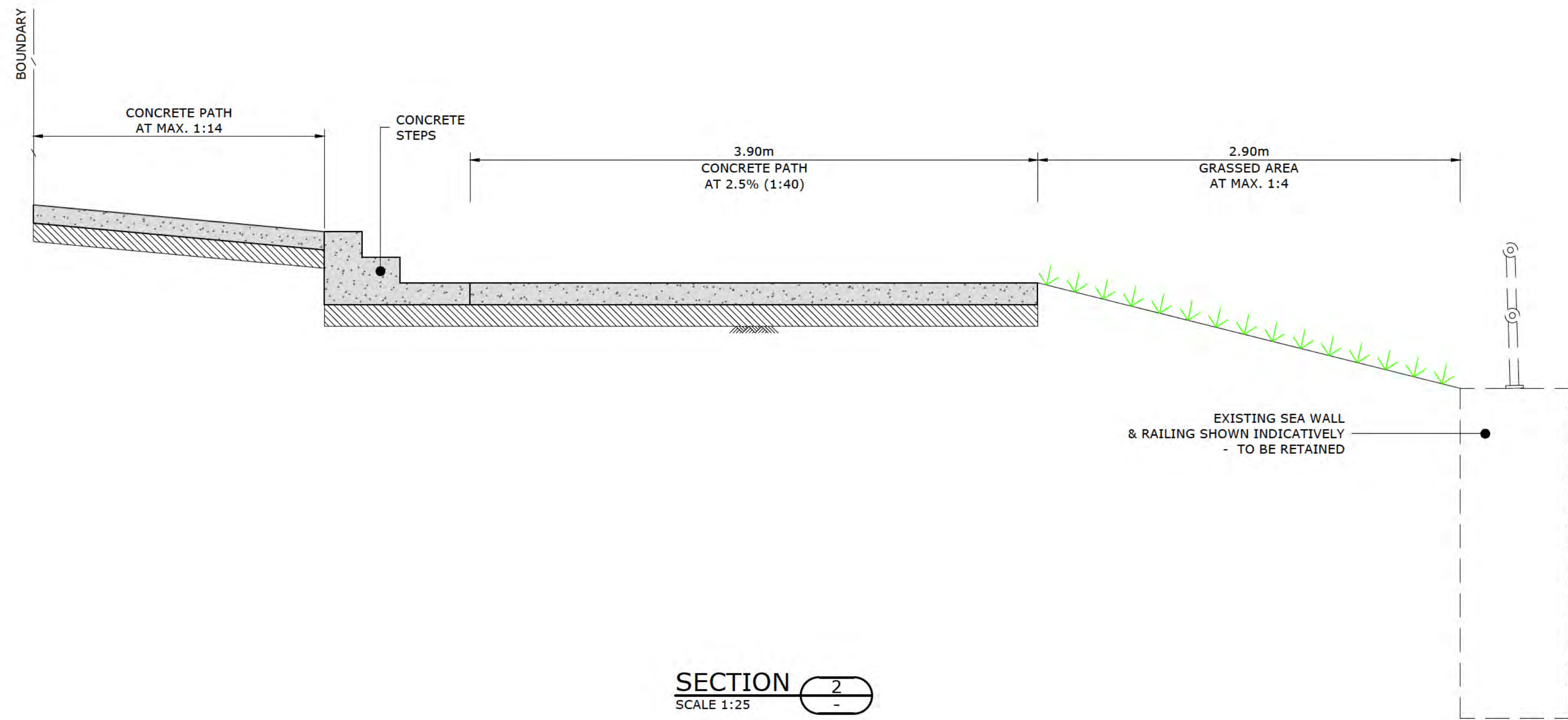
**BAYSIDE COUNCIL**

SANDRINGHAM NSW 2219  
SANDRINGHAM CYCLEWAY  
CROSS SECTIONS  
SHEET 2 OF 2

|           |                    |                |        |                |     |          |   |
|-----------|--------------------|----------------|--------|----------------|-----|----------|---|
| FILENAME: | 221703_442_CRS.DWG | PROJECT NUMBER | 221703 | DRAWING NUMBER | 442 | REVISION | A |
|-----------|--------------------|----------------|--------|----------------|-----|----------|---|



SECTION 1  
SCALE 1:25



SECTION 2  
SCALE 1:25

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NOT FOR CONSTRUCTION

BAYSIDE COUNCIL

SANDRINGHAM NSW 2219  
SANDRINGHAM CYCLEWAY  
TYPICAL SECTIONS



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| FILENAME:          | PROJECT NUMBER | DRAWING NUMBER | REVISION |
|--------------------|----------------|----------------|----------|
| 221703_611_TYP.DWG | 221703         | 611            | A        |

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| SHEET SIZE                  |                                                |          |      |      |
|-----------------------------|------------------------------------------------|----------|------|------|
| A1                          |                                                |          |      |      |
| COORDS: GDA94 MGA94 Z56     |                                                |          |      |      |
| DATUM: ALL LEVELS TO A.H.D. |                                                |          |      |      |
| SCALE: AS SHOWN             |                                                |          |      |      |
| SURVEYED: ?                 |                                                |          |      |      |
| SURVEY DATE: ?              |                                                |          |      |      |
| APPROVED / PROJECT LEADER   |                                                |          |      |      |
| A                           | DRAFT ISSUE WITH PRELIMINARY VERTICAL GEOMETRY | 02.12.22 | NS   | NS   |
| REV                         | AMENDMENT / REASON FOR ISSUE                   | DATE     | DES. | DWN. |

## **Appendix B: Marine Ecology Survey Report (Seadragon Diving Co., 2022)**



Sea Dragon Diving Co.

PRIVATE AND CONFIDENTIAL INFORMATION

# Marine Survey FOR



**Bayside Council**  
Serving Our Community

## LOCATION: Sandringham Bay

22<sup>th</sup> August 2020

## Bayside Council

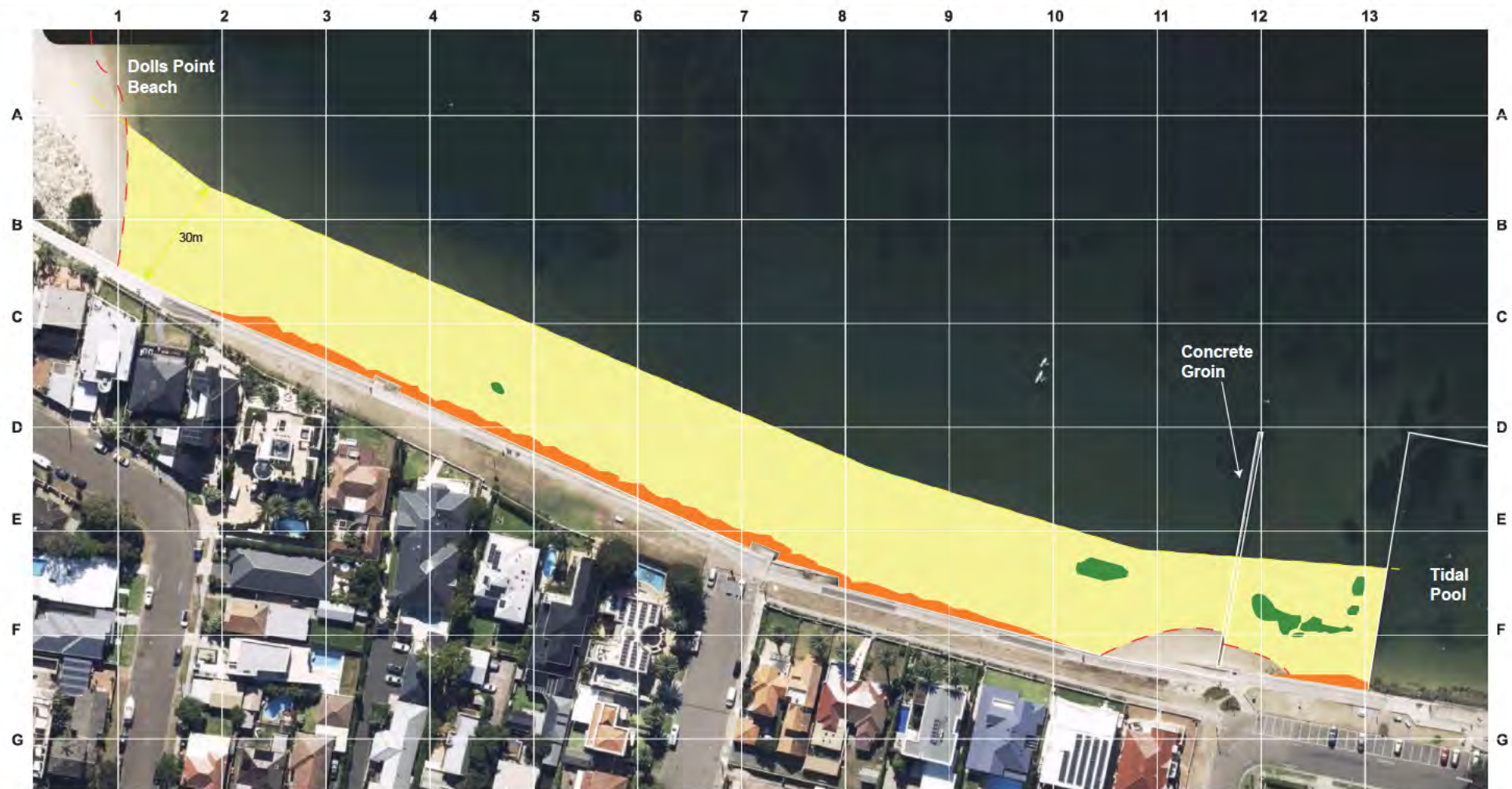
In preparation for construction works to repair the seawall between Sandringham Tidal Pool and Dolls Point Beach, Sea Dragon Diving Co. has conducted a thorough marine assessment of the proposed work impact zone. Marine flora and fauna have been surveyed to allow for the assessment by others to reduce impacts their works has on these communities.

### GENERAL INSPECTION DETAILS

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Enclosure Name:</b>          | Sandringham Bay Sea Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Date(s) of Inspection:</b>   | 21 <sup>st</sup> & 22 <sup>nd</sup> August 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Inspection Conditions:</b>   | Est. Water Temp: 18oC. Weather: fine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Water Visibility:</b>        | 5m Max vis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>General Seabed material:</b> | Sandy silt / rocky shoreline.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>General Comments:</b>        | <ul style="list-style-type: none"> <li>The majority of the habitat within the work impact zone is comprised of sandy silt substrate with very low amounts of marine flora and fauna. Effective silt management should be in place to reduce dispersal to the east &amp; southeast where larger <i>Zostera</i> meadows are located.</li> <li>During the inspection we observed only one species of native seagrass (<i>Zostera capricorni</i>) within the work site. This species is listed as protected under <i>Fisheries Management Act 1994</i> and care should be taken to reduce construction impacts.</li> <li>Nil protected marine fauna was observed within the survey area, however the <i>Zostera</i> beds to the south of the work impact zone are connected to known <i>Hippocampus whitei</i> habitat located within the tidal pool. Additional care should be taken to not disturb the seagrass within this area.</li> <li>Nil Black Cod were observed during the survey.</li> <li>Nil marine mammals were observed</li> <li>Nil invasive marine weeds were observed in the survey area.</li> <li>If vessel support is required for the proposed work, approved mooring plans should be provided by contractor to include</li> </ul> |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p>exclusion / buffer zones around seagrass bed locations. Due to shallow water, the contractors mooring plans should include statement relating to proposed propeller wash management to reduce siltation and impacts to seagrass in these areas.</p> <p>Sea Dragon Diving can advise on mitigation measures and can consult the contractor if required. Please just contact [REDACTED].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <h2>FLORA &amp; FAUNA SURVEY</h2> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purpose</b>                    | <p>The intent of the survey is to give an accurate account of the location and type of protected marine species found within the proposed work impact zone. We have also included a search for invasive pest species.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Survey Methodology</b>         | <p>To record data on the location and types of species found, an occupational dive team used both surface and underwater observations to record the amount and type of notable species within the area.</p> <p>Attention was specifically given to all protected species including native seagrasses, syngnathids (seahorses and pipefish), Black cod, and all marine mammals.</p> <p>Commercial divers using hardwired surface communication, swam parallel to the shoreline in 5m transects until they reached 30m away from the seawall. Divers communicated relevant information relating to the species sighted with surface support, which was recorded by topside staff.</p> <p>In shallow areas, a surface viewing glass was also used to search for and identify species and map accordingly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Findings</b>                   | <p>As seen in Figure 1, much of the survey area was made of primarily sandy silt beds. This area is indicated in light yellow on the map.</p> <p>Several small reef fish species were identified including Yellowfin Bream (<i>Acanthopagrus australis</i>), Dusky Flathead (<i>Platycephalus fuscus</i>), Goat Fish (<i>Upneichthys lineatus</i>), and Luderick (<i>Girella tricuspidate</i>).</p> <p>During the survey NO syngnathids were observed. The adjacent seagrass beds to the south within the tidal pool, harbour several Hippocampus whitei. There is potential for syngnathids to be found on southernmost seagrass bed between concrete groin and the tidal pool netting do to their connectivity with the known syngnathid habitat.</p> <p>Nil Black cod or marine mammals were observed during the survey.</p> <p>The foundation and rock ballast below the seawall has formed a man-made oyster reef. This only extends as far as the ballast as shown in orange in Figure 1.</p> <p>Only 1 native seagrass species (<i>Zostera capricorni</i>) was identified within the survey area. In the map you can clearly see the location of the small patches indicated in Dark Green. The Zostera was in clearly defined dense patches (&gt;20 plants per 5m<sup>2</sup>) with some runners identified along the peripheries.</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>In figure 1, D5 shows location of small patch (approx. 2.5m<sup>2</sup>) of Zostera. This is located approximately 10m from the seawall and the only directly impacted seagrass.</p> <p>The Zostera located in F11 and F12-13 (approx. 55m<sup>2</sup> total), is buffered by a sand accumulation at the western shore end of the concrete groin. Additionally, this is located slightly further away from the seawall footing and ballast.</p> <p>NOTE: Nil invasive weeds (such as <i>Caulerpa taxifolia</i>) were observed at the site.</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

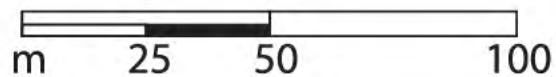


**NOTES:**

- 30m wide survey area was assessed during the survey.
- Rocky foreshore consists mainly of Cunjevoi & Oyster reef habitat formed on the man-made footing for the seawall.
- Only one species of Seagrass (*Zostera capricorni*) was located within the study area. (D5, F11, F13)
- Majority of the study area consisted of fine sandy silt habitat.
- Survey area is exposed to S, SSE, SE directional wind / storm events which have caused scouring of the beach front.

**LEGEND**

- Zostera capricorni*.
- Rocky foreshore / Oyster reef habitat
- Sandy / silt beds



**Habitat Map**  
**Seawall to the south of Dolls Point Beach**

**Figure 1**



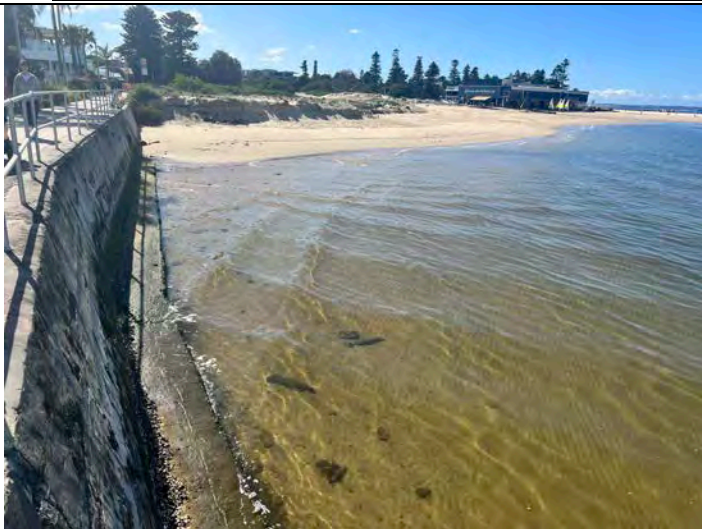


Photo 1 Site overview (Northern end)



Photo 2 Typical ballast rock / oyster reef.



Photo 3 Typical ballast rock / oyster reef.



Photo 4 Typical ballast rock / oyster reef.



Photo 5 Seawall footing towards the northern end.



Photo 6 Seawall footing.



Photo 7 Dark patch of Zoster in background.



Photo 8 Beach front at base of wall.



Photo 9 Beach near concrete groin.



Photo 10 Seagrass between tidal pool and groin in background



Photo 11 Tidal pool to the south.

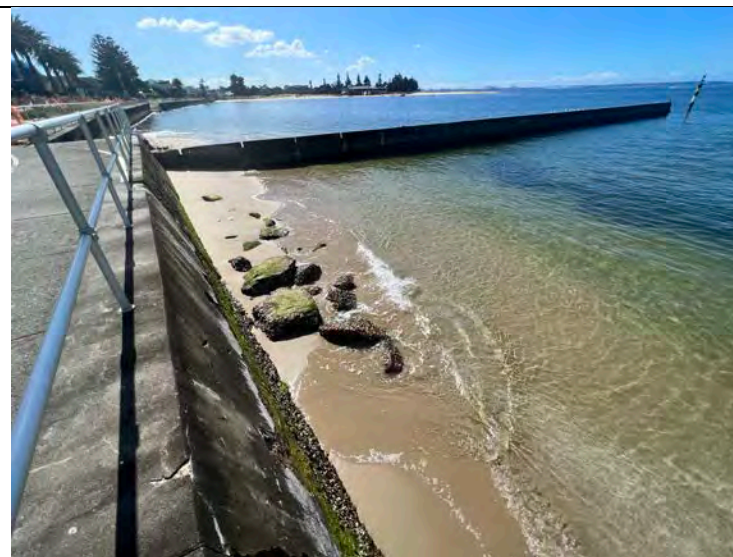


Photo 12 View of rock groin.



Photo 13 Example of Zostera patch at work site.



Photo 14 Example of Zostera at work site.



Photo 15 Example of Zoster at work site.



Photo 16 Example of Zostera at the work site.



Photo 17 Example of sandy silt substrate within the work site.

## Appendix C: EPBC Protected Matters Search



Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# 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: 23-Mar-2023

[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](#).

|                                                              |      |
|--------------------------------------------------------------|------|
| <a href="#">World Heritage Properties:</a>                   | None |
| <a href="#">National Heritage Places:</a>                    | 3    |
| <a href="#">Wetlands of International Importance (Ramsar</a> | 1    |
| <a href="#">Great Barrier Reef Marine Park:</a>              | None |
| <a href="#">Commonwealth Marine Area:</a>                    | None |
| <a href="#">Listed Threatened Ecological Communities:</a>    | 14   |
| <a href="#">Listed Threatened Species:</a>                   | 109  |
| <a href="#">Listed Migratory Species:</a>                    | 82   |

## Other Matters Protected by the EPBC Act

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

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

|                                                                     |      |
|---------------------------------------------------------------------|------|
| <a href="#">Commonwealth Lands:</a>                                 | 215  |
| <a href="#">Commonwealth Heritage Places:</a>                       | 5    |
| <a href="#">Listed Marine Species:</a>                              | 104  |
| <a href="#">Whales and Other Cetaceans:</a>                         | 15   |
| <a href="#">Critical Habitats:</a>                                  | None |
| <a href="#">Commonwealth Reserves Terrestrial:</a>                  | None |
| <a href="#">Australian Marine Parks:</a>                            | None |
| <a href="#">Habitat Critical to the Survival of Marine Turtles:</a> | None |

## Extra Information

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

|                                                         |      |
|---------------------------------------------------------|------|
| <a href="#">State and Territory Reserves:</a>           | 9    |
| <a href="#">Regional Forest Agreements:</a>             | None |
| <a href="#">Nationally Important Wetlands:</a>          | 3    |
| <a href="#">EPBC Act Referrals:</a>                     | 49   |
| <a href="#">Key Ecological Features (Marine):</a>       | None |
| <a href="#">Biologically Important Areas:</a>           | 4    |
| <a href="#">Bioregional Assessments:</a>                | 1    |
| <a href="#">Geological and Bioregional Assessments:</a> | None |

# Details

## Matters of National Environmental Significance

| National Heritage Places                                                  |       |              | [ Resource Information ] |
|---------------------------------------------------------------------------|-------|--------------|--------------------------|
| Name                                                                      | State | Legal Status | Buffer Status            |
| Historic                                                                  |       |              |                          |
| <a href="#">Kamay Botany Bay: botanical collection sites</a>              | NSW   | Listed place | In feature area          |
| <a href="#">Kurnell Peninsula Headland</a>                                | NSW   | Listed place | In buffer area only      |
| Natural                                                                   |       |              |                          |
| <a href="#">Royal National Park and Garawarra State Conservation Area</a> | NSW   | Listed place | In buffer area only      |

| Wetlands of International Importance (Ramsar Wetlands) |                    | [ Resource Information ] |
|--------------------------------------------------------|--------------------|--------------------------|
| Ramsar Site Name                                       | Proximity          | Buffer Status            |
| <a href="#">Towra point nature reserve</a>             | Within 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       |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|---------------------|
| <a href="#">Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion</a>                              | Endangered            | Community may occur within area       | In buffer area only |
| <a href="#">Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community</a> | Endangered            | Community likely to occur within area | In feature area     |
| <a href="#">Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland</a>                                 | Endangered            | Community likely to occur within area | In feature area     |
| <a href="#">Coastal Upland Swamps in the Sydney Basin Bioregion</a>                                                           | Endangered            | Community likely to occur within area | In feature area     |
| <a href="#">Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion</a>                                         | Critically Endangered | Community may occur within area       | In buffer area only |
| <a href="#">Eastern Suburbs Banksia Scrub of the Sydney Region</a>                                                            | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Littoral Rainforest and Coastal Vine Thickets of Eastern Australia</a>                                            | Critically Endangered | Community likely to occur within area | In buffer area only |

| Community Name                                                                                                     | Threatened Category   | Presence Text                         | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|---------------------|
| <a href="#">Posidonia australis seagrass meadows of the Manning-Hawkesbury ecoregion</a>                           | Endangered            | Community likely to occur within area | In feature area     |
| <a href="#">River-flat eucalypt forest on coastal floodplains of southern New South Wales and eastern Victoria</a> | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Shale Sandstone Transition Forest of the Sydney Basin Bioregion</a>                                    | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Subtropical and Temperate Coastal Saltmarsh</a>                                                        | Vulnerable            | Community likely to occur within area | In buffer area only |
| <a href="#">Turpentine-Ironbark Forest of the Sydney Basin Bioregion</a>                                           | Critically Endangered | Community likely to occur within area | In buffer area only |
| <a href="#">Upland Basalt Eucalypt Forests of the Sydney Basin Bioregion</a>                                       | Endangered            | Community may occur within area       | In feature area     |
| <a href="#">Western Sydney Dry Rainforest and Moist Woodland on Shale</a>                                          | Critically Endangered | Community may occur within area       | In buffer area only |

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                                                                  |                       |                                                       |                 |
| <a href="#">Anthochaera phrygia</a><br>Regent Honeyeater [82338]      | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| <a href="#">Botaurus poiciloptilus</a><br>Australasian Bittern [1001] | Endangered            | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]              | Endangered            | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]         | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]             | Critically Endangered | Roosting known to occur within area                   | In feature area |
| <a href="#">Callocephalon fimbriatum</a><br>Gang-gang Cockatoo [768]  | Endangered            | Species or species habitat known to occur within area | In feature area |

| Scientific Name                                                                                | Threatened Category | Presence Text                                                      | Buffer Status   |
|------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|-----------------|
| <a href="#">Calyptorhynchus lathami lathami</a><br>South-eastern Glossy Black-Cockatoo [67036] | Vulnerable          | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877]       | Vulnerable          | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]              | Endangered          | Roosting known to occur within area                                | In feature area |
| <a href="#">Dasyornis brachypterus</a><br>Eastern Bristlebird [533]                            | Endangered          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                          | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea antipodensis gibsoni</a><br>Gibson's Albatross [82270]                    | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                        | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                          | Endangered          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Erythrorhynchus radiatus</a><br>Red Goshawk [942]                                  | Vulnerable          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Falco hypoleucos</a><br>Grey Falcon [929]                                          | Vulnerable          | Species or species habitat likely to occur within area             | In feature area |

| Scientific Name                                                                                                                            | Threatened Category   | Presence Text                                                      | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Fregetta grallaria grallaria</a><br>White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438] | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Grantiella picta</a><br>Painted Honeyeater [470]                                                                               | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]                                                                   | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Lathamus discolor</a><br>Swift Parrot [744]                                                                                    | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Limosa lapponica baueri</a><br>Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]                            | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060]                                               | Endangered            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                                                                          | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In feature area     |
| <a href="#">Neophema chrysogaster</a><br>Orange-bellied Parrot [747]                                                                       | Critically Endangered | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                                                      | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Pachyptila turtur subantarctica</a><br>Fairy Prion (southern) [64445]                                                          | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Phoebetria fusca</a><br>Sooty Albatross [1075]                                                                                 | Vulnerable            | Species or species habitat may occur within area                   | In buffer area only |

| Scientific Name                                                                                       | Threatened Category | Presence Text                                                      | Buffer Status   |
|-------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|-----------------|
| <a href="#">Pterodroma leucoptera leucoptera</a><br>Gould's Petrel, Australian Gould's Petrel [26033] | Endangered          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Pterodroma neglecta neglecta</a><br>Kermadec Petrel (western) [64450]                     | Vulnerable          | Foraging, feeding or related behaviour may occur within area       | In feature area |
| <a href="#">Pycnoptilus floccosus</a><br>Pilotbird [525]                                              | Vulnerable          | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Rostratula australis</a><br>Australian Painted Snipe [77037]                              | Endangered          | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Sternula nereis nereis</a><br>Australian Fairy Tern [82950]                               | Vulnerable          | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                 | Vulnerable          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Thalassarche bulleri platei</a><br>Northern Buller's Albatross, Pacific Albatross [82273] | Vulnerable          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                         | Vulnerable          | Species or species habitat likely to occur within area             | In feature area |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                           | Endangered          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                     | Endangered          | Foraging, feeding or related behaviour may occur within area       | In feature area |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459]  | Vulnerable          | Species or species habitat may occur within area                   | In feature area |

| Scientific Name                                                                                   | Threatened Category    | Presence Text                                                      | Buffer Status       |
|---------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                        | Vulnerable             | Foraging, feeding or related behaviour likely to occur within area | In feature area     |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                | Vulnerable             | Foraging, feeding or related behaviour likely to occur within area | In feature area     |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                             | Vulnerable             | Foraging, feeding or related behaviour known to occur within area  | In feature area     |
| FISH                                                                                              |                        |                                                                    |                     |
| <a href="#">Epinephelus daemeli</a><br>Black Rockcod, Black Cod, Saddled Rockcod [68449]          | Vulnerable             | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Hippocampus whitei</a><br>White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240] | Endangered             | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Macquaria australasica</a><br>Macquarie Perch [66632]                                 | Endangered             | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Prototroctes maraena</a><br>Australian Grayling [26179]                               | Vulnerable             | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Serirolella brama</a><br>Blue Warehou [69374]                                         | Conservation Dependent | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Thunnus maccoyii</a><br>Southern Bluefin Tuna [69402]                                 | Conservation Dependent | Species or species habitat likely to occur within area             | In feature area     |
| FROG                                                                                              |                        |                                                                    |                     |
| <a href="#">Heleioporus australiacus</a><br>Giant Burrowing Frog [1973]                           | Vulnerable             | Species or species habitat known to occur within area              | In buffer area only |

| Scientific Name                                                                                                                                                        | Threatened Category | Presence Text                                                      | Buffer Status       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Litoria aurea</a><br>Green and Golden Bell Frog [1870]                                                                                                     | Vulnerable          | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Mixophyes balbus</a><br>Stuttering Frog, Southern Barred Frog (in Victoria) [1942]                                                                         | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| INSECT                                                                                                                                                                 |                     |                                                                    |                     |
| <a href="#">Austrocordulia leonardi</a><br>Sydney Hawk Dragonfly [84741]                                                                                               | Endangered          | Species or species habitat likely to occur within area             | In buffer area only |
| MAMMAL                                                                                                                                                                 |                     |                                                                    |                     |
| <a href="#">Balaenoptera borealis</a><br>Sei Whale [34]                                                                                                                | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                                                                                                               | Endangered          | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Balaenoptera physalus</a><br>Fin Whale [37]                                                                                                                | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Chalinolobus dwyeri</a><br>Large-eared Pied Bat, Large Pied Bat [183]                                                                                      | Vulnerable          | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Dasyurus maculatus maculatus (SE mainland population)</a><br>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     |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]                                                                                                       | Endangered          | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Isoodon obesulus obesulus</a><br>Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]                                      | Endangered          | Species or species habitat likely to occur within area             | In feature area     |

| Scientific Name                                                                                                                                                                                   | Threatened Category | Presence Text                                          | Buffer Status       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|
| <a href="#">Notamacropus parma</a><br>Parma Wallaby [89289]                                                                                                                                       | Vulnerable          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Petauroides volans</a><br>Greater Glider (southern and central) [254]                                                                                                                 | Endangered          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Petaurus australis australis</a><br>Yellow-bellied Glider (south-eastern) [87600]                                                                                                     | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Petrogale penicillata</a><br>Brush-tailed Rock-wallaby [225]                                                                                                                          | Vulnerable          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</a><br>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     |
| <a href="#">Pseudomys novaehollandiae</a><br>New Holland Mouse, Pookila [96]                                                                                                                      | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Pteropus poliocephalus</a><br>Grey-headed Flying-fox [186]                                                                                                                            | Vulnerable          | Roosting known to occur within area                    | In feature area     |
| OTHER                                                                                                                                                                                             |                     |                                                        |                     |
| <a href="#">Dendronephthya australis</a><br>Cauliflower Soft Coral [90325]                                                                                                                        | Endangered          | Species or species habitat known to occur within area  | In buffer area only |
| PLANT                                                                                                                                                                                             |                     |                                                        |                     |
| <a href="#">Acacia bynoeana</a><br>Bynoe's Wattle, Tiny Wattle [8575]                                                                                                                             | Vulnerable          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Acacia pubescens</a><br>Downy Wattle, Hairy Stemmed Wattle [18800]                                                                                                                    | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Acacia terminalis subsp. terminalis MS</a><br>Sunshine Wattle (Sydney region) [88882]                                                                                                 | Endangered          | Species or species habitat known to occur within area  | In feature area     |

| Scientific Name                                                                                             | Threatened Category | Presence Text                                          | Buffer Status       |
|-------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|
| <a href="#">Allocasuarina glareicola</a><br>[21932]                                                         | Endangered          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Caladenia tessellata</a><br>Thick-lipped Spider-orchid, Daddy Long-legs [2119]                  | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Calochilus pulchellus</a><br>Pretty Beard Orchid, Pretty Beard-orchid [84677]                   | Endangered          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Cryptostylis hunteriana</a><br>Leafless Tongue-orchid [19533]                                   | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Cynanchum elegans</a><br>White-flowered Wax Plant [12533]                                       | Endangered          | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Deyeuxia appressa</a><br>[7438]                                                                 | Endangered          | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Eucalyptus camfieldii</a><br>Camfield's Stringybark [15460]                                     | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Genoplesium baueri</a><br>Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528] | Endangered          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Leucopogon exolasius</a><br>Woronora Beard-heath [14251]                                        | Vulnerable          | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Melaleuca biconvexa</a><br>Biconvex Paperbark [5583]                                            | Vulnerable          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Melaleuca deanei</a><br>Deane's Melaleuca [5818]                                                | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |

| Scientific Name                                                                                                                    | Threatened Category   | Presence Text                                          | Buffer Status       |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|---------------------|
| <a href="#">Persicaria elatior</a><br>Knotweed, Tall Knotweed [5831]                                                               | Vulnerable            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Persoonia hirsuta</a><br>Hairy Geebung, Hairy Persoonia [19006]                                                        | Endangered            | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Persoonia nutans</a><br>Nodding Geebung [18119]                                                                        | Endangered            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Pimelea curviflora var. curviflora</a><br>[4182]                                                                       | Vulnerable            | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Pimelea spicata</a><br>Spiked Rice-flower [20834]                                                                      | Endangered            | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Pomaderris brunnea</a><br>Rufous Pomaderris, Brown Pomaderris [16845]                                                  | Vulnerable            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Prostanthera densa</a><br>Villous Mintbush [12233]                                                                     | Vulnerable            | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Pterostylis saxicola</a><br>Sydney Plains Greenhood [64537]                                                            | Endangered            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Pterostylis sp. Botany Bay (A.Bishop J221/1-13)</a><br>Botany Bay Bearded Greenhood, Botany Bay Bearded Orchid [64965] | Endangered            | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Rhizanthella slateri</a><br>Eastern Underground Orchid [11768]                                                         | Endangered            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Rhodamnia rubescens</a><br>Scrub Turpentine, Brown Malletwood [15763]                                                  | Critically Endangered | Species or species habitat likely to occur within area | In feature area     |

| Scientific Name                                                                                                                            | Threatened Category   | Presence Text                                                     | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|---------------------|
| <a href="#">Rhodomyrtus psidioides</a><br>Native Guava [19162]                                                                             | Critically Endangered | Species or species habitat may occur within area                  | In feature area     |
| <a href="#">Syzygium paniculatum</a><br>Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307] | Vulnerable            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Thelymitra kangaloonica</a><br>Kangaloon Sun Orchid [81861]                                                                    | Critically Endangered | Species or species habitat may occur within area                  | In buffer area only |
| <a href="#">Thesium australe</a><br>Austral Toadflax, Toadflax [15202]                                                                     | Vulnerable            | Species or species habitat known to occur within area             | In feature area     |
| REPTILE                                                                                                                                    |                       |                                                                   |                     |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                                                                                | Endangered            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                                                                      | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]                                                   | Endangered            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                                                                          | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Hoplocephalus bungaroides</a><br>Broad-headed Snake [1182]                                                                     | Vulnerable            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                                                               | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| SHARK                                                                                                                                      |                       |                                                                   |                     |

| Scientific Name                                                                | Threatened Category    | Presence Text                                                      | Buffer Status       |
|--------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Carcharias taurus (east coast population)</a>                      |                        |                                                                    |                     |
| Grey Nurse Shark (east coast population) [68751]                               | Critically Endangered  | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Carcharodon carcharias</a>                                         |                        |                                                                    |                     |
| White Shark, Great White Shark [64470]                                         | Vulnerable             | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Galeorhinus galeus</a>                                             |                        |                                                                    |                     |
| School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453] | Conservation Dependent | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Rhincodon typus</a>                                                |                        |                                                                    |                     |
| Whale Shark [66680]                                                            | Vulnerable             | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Sphyrna lewini</a>                                                 |                        |                                                                    |                     |
| Scalloped Hammerhead [85267]                                                   | Conservation Dependent | Species or species habitat known to occur within area              | In feature area     |
| SNAIL                                                                          |                        |                                                                    |                     |
| <a href="#">Meridolum maryae</a>                                               |                        |                                                                    |                     |
| Maroubra Woodland Snail, Maroubra Land Snail [89884]                           | Endangered             | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Pommerhelix duralensis</a>                                         |                        |                                                                    |                     |
| Dural Land Snail [85268]                                                       | Endangered             | Species or species habitat likely to occur within area             | In buffer area only |
| Listed Migratory Species                                                       |                        |                                                                    |                     |
| [ <a href="#">Resource Information</a> ]                                       |                        |                                                                    |                     |
| Scientific Name                                                                | Threatened Category    | Presence Text                                                      | Buffer Status       |
| Migratory Marine Birds                                                         |                        |                                                                    |                     |
| <a href="#">Anous stolidus</a>                                                 |                        |                                                                    |                     |
| Common Noddy [825]                                                             |                        | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Apus pacificus</a>                                                 |                        |                                                                    |                     |
| Fork-tailed Swift [678]                                                        |                        | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Ardenna carneipes</a>                                              |                        |                                                                    |                     |
| Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]                      |                        | Foraging, feeding or related behaviour likely to occur within area | In feature area     |

| Scientific Name                                                                              | Threatened Category | Presence Text                                                      | Buffer Status   |
|----------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|-----------------|
| <a href="#">Ardenna grisea</a><br>Sooty Shearwater [82651]                                   |                     | Species or species habitat likely to occur within area             | In feature area |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                         |                     | Species or species habitat known to occur within area              | In feature area |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                        | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                      | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                              | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                        | Endangered          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]                |                     | Species or species habitat likely to occur within area             | In feature area |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]               |                     | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered          | Species or species habitat may occur within area                   | In feature area |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                            | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area |

| Scientific Name                                                                                      | Threatened Category | Presence Text                                                      | Buffer Status       |
|------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]                                  |                     | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Phoebetria fusca</a><br>Sooty Albatross [1075]                                           | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Sternula albifrons</a><br>Little Tern [82849]                                            |                     | Breeding likely to occur within area                               | In feature area     |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                | Vulnerable          | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                        | Vulnerable          | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                          | Endangered          | Foraging, feeding or related behaviour likely to occur within area | In feature area     |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                    | Endangered          | Foraging, feeding or related behaviour may occur within area       | In feature area     |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459] | Vulnerable          | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                           | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area     |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                   | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In feature area     |

| Scientific Name                                                                  | Threatened Category | Presence Text                                                      | Buffer Status       |
|----------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]            | Vulnerable          | Foraging, feeding or related behaviour known to occur within area  | In feature area     |
| Migratory Marine Species                                                         |                     |                                                                    |                     |
| <a href="#">Balaenoptera borealis</a><br>Sei Whale [34]                          | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                         |                     | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                         | Endangered          | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Balaenoptera physalus</a><br>Fin Whale [37]                          | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39]                      |                     | Foraging, feeding or related behaviour may occur within area       | In feature area     |
| <a href="#">Carcharhinus longimanus</a><br>Oceanic Whitetip Shark [84108]        |                     | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470] | Vulnerable          | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                      | Endangered          | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                            | Vulnerable          | Foraging, feeding or related behaviour known to occur within area  | In feature area     |

| Scientific Name                                                                                 | Threatened Category | Presence Text                                                     | Buffer Status       |
|-------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|---------------------|
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]        | Endangered          | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Dugong dugon</a><br>Dugong [28]                                                     |                     | Species or species habitat may occur within area                  | In feature area     |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                               | Vulnerable          | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Eubalaena australis as Balaena glacialis australis</a><br>Southern Right Whale [40] | Endangered          | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Lagenorhynchus obscurus</a><br>Dusky Dolphin [43]                                   |                     | Species or species habitat may occur within area                  | In feature area     |
| <a href="#">Lamna nasus</a><br>Porbeagle, Mackerel Shark [83288]                                |                     | Species or species habitat likely to occur within area            | In feature area     |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]                                   |                     | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Mobula alfredi as Manta alfredi</a><br>Reef Manta Ray, Coastal Manta Ray [90033]    |                     | Species or species habitat may occur within area                  | In feature area     |
| <a href="#">Mobula birostris as Manta birostris</a><br>Giant Manta Ray [90034]                  |                     | Species or species habitat may occur within area                  | In feature area     |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                    | Vulnerable          | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]                                         |                     | Species or species habitat likely to occur within area            | In buffer area only |

| Scientific Name                                                                                 | Threatened Category | Presence Text                                         | Buffer Status   |
|-------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------|-----------------|
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]                                          | Vulnerable          | Species or species habitat may occur within area      | In feature area |
| Migratory Terrestrial Species                                                                   |                     |                                                       |                 |
| <a href="#">Cuculus optatus</a><br>Oriental Cuckoo, Horsfield's Cuckoo [86651]                  |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]                        | Vulnerable          | Species or species habitat known to occur within area | In feature area |
| <a href="#">Monarcha melanopsis</a><br>Black-faced Monarch [609]                                |                     | Species or species habitat known to occur within area | In feature area |
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]                                         |                     | Species or species habitat known to occur within area | In feature area |
| <a href="#">Myiagra cyanoleuca</a><br>Satin Flycatcher [612]                                    |                     | Breeding known to occur within area                   | In feature area |
| <a href="#">Rhipidura rufifrons</a><br>Rufous Fantail [592]                                     |                     | Species or species habitat known to occur within area | In feature area |
| <a href="#">Symposiachrus trivirgatus as Monarcha trivirgatus</a><br>Spectacled Monarch [83946] |                     | Species or species habitat may occur within area      | In feature area |
| Migratory Wetlands Species                                                                      |                     |                                                       |                 |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                                  |                     | Species or species habitat known to occur within area | In feature area |
| <a href="#">Arenaria interpres</a><br>Ruddy Turnstone [872]                                     |                     | Roosting known to occur within area                   | In feature area |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                              |                     | Roosting known to occur within area                   | In feature area |
| <a href="#">Calidris alba</a><br>Sanderling [875]                                               |                     | Roosting known to occur within area                   | In feature area |

| Scientific Name                                                                          | Threatened Category   | Presence Text                                         | Buffer Status   |
|------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------|
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                 | Endangered            | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                            | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                           |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Calidris ruficollis</a><br>Red-necked Stint [860]                            |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Calidris subminuta</a><br>Long-toed Stint [861]                              |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]                                | Critically Endangered | Roosting known to occur within area                   | In feature area |
| <a href="#">Charadrius bicinctus</a><br>Double-banded Plover [895]                       |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877] | Vulnerable            | Species or species habitat known to occur within area | In feature area |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]        | Endangered            | Roosting known to occur within area                   | In feature area |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]           |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Gallinago hardwickii</a><br>Latham's Snipe, Japanese Snipe [863]             |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Gallinago megala</a><br>Swinhoe's Snipe [864]                                |                       | Roosting likely to occur within area                  | In feature area |
| <a href="#">Gallinago stenura</a><br>Pin-tailed Snipe [841]                              |                       | Roosting likely to occur within area                  | In feature area |

| Scientific Name                                                                       | Threatened Category   | Presence Text                                         | Buffer Status   |
|---------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------|
| <a href="#">Limicola falcinellus</a><br>Broad-billed Sandpiper [842]                  | Critically Endangered | Roosting known to occur within area                   | In feature area |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                           |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Limosa limosa</a><br>Black-tailed Godwit [845]                            |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847] |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Numenius minutus</a><br>Little Curlew, Little Whimbrel [848]              |                       | Roosting likely to occur within area                  | In feature area |
| <a href="#">Numenius phaeopus</a><br>Whimbrel [849]                                   |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                     |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Pluvialis fulva</a><br>Pacific Golden Plover [25545]                      |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Pluvialis squatarola</a><br>Grey Plover [865]                             |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Tringa brevipes</a><br>Grey-tailed Tattler [851]                          |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Tringa incana</a><br>Wandering Tattler [831]                              |                       | Roosting known to occur within area                   | In feature area |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]               |                       | Species or species habitat known to occur within area | In feature area |
| <a href="#">Xenus cinereus</a><br>Terek Sandpiper [59300]                             |                       | Roosting known 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       |
|-------------------------------------------------------------------------------------|-------|---------------------|
| Commonwealth Trading Bank of Australia                                              |       |                     |
| Commonwealth Land - Commonwealth Trading Bank of Australia [14323]                  | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Trading Bank of Australia [14322]                  | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Trading Bank of Australia [14325]                  | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Trading Bank of Australia [14477]                  | NSW   | In buffer area only |
| Communications, Information Technology and the Arts - Australian Postal Corporation |       |                     |
| Commonwealth Land - Australian Postal Commission [14366]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14473]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14329]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14324]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [12125]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14350]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [15538]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [15537]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14328]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [12078]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14355]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14326]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [14391]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [14422]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [14421]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [12073]                           | NSW   | In buffer area only |

| Commonwealth Land Name                                                            | State | Buffer Status       |
|-----------------------------------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Australian Postal Corporation [12072]                         | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [15898]                         | NSW   | In buffer area only |
| Communications, Information Technology and the Arts - Telstra Corporation Limited |       |                     |
| Commonwealth Land - Australian & Overseas Telecommunications Corporation [14458]  | NSW   | In buffer area only |
| Commonwealth Land - Australian & Overseas Telecommunications Corporation [14359]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14463]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12116]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12058]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14379]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12059]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14405]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14402]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12069]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14443]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14327]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14416]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14418]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12098]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14415]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14417]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14381]              | NSW   | In buffer area only |

| Commonwealth Land Name                                                                 | State | Buffer Status       |
|----------------------------------------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Australian Telecommunications Commission [14388]                   | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [14368]                                | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [12075]                                | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [12076]                                | NSW   | In buffer area only |
| Defence                                                                                |       |                     |
| Commonwealth Land - Defence Service Homes Corporation [12117]                          | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [14352]                          | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [14357]                          | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [14363]                          | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [14360]                          | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation & Alice Isabel Patterson [14377] | NSW   | In buffer area only |
| Defence - BANKSMEADOW DEPOT (Sydney Workshop Company) [11117]                          | NSW   | In buffer area only |
| Defence - BANKSMEADOW DEPOT (Sydney Workshop Company) [11116]                          | NSW   | In buffer area only |
| Defence - HURSTVILLE TRG DEP [11109]                                                   | NSW   | In buffer area only |
| Defence - MATERIAL RESEARCH LAB [10013]                                                | NSW   | In buffer area only |
| Defence - ROCKDALE TRAINING DEPOT [11111]                                              | NSW   | In buffer area only |
| Defence - SUTHERLAND MULTI-USER DEPOT [11136]                                          | NSW   | In buffer area only |
| Defence - Defence Housing Authority                                                    |       |                     |
| Commonwealth Land - Defence Housing Authority [14464]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15755]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15752]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15757]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15754]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15751]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14467]                                  | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15753]                                  | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [15750] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15749] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16286] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14462] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14461] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14468] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15918] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16457] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16456] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14456] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16058] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16455] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16454] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16117] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15969] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14021] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15486] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14470] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12118] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16459] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16458] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16453] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15884] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15885] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14362] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15756] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15596] | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [15881] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15886] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15887] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16122] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15619] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12061] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16093] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12088] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12080] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12082] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12081] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12063] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12060] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12062] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15959] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14403] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14447] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14448] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14446] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16491] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15963] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12086] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12084] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12085] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14449] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15636] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14419] | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [12079] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14099] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14469] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16025] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12074] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16020] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16470] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12071] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12070] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12077] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16464] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16467] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16468] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16465] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12087] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15414] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14459] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14450] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14453] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14455] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14454] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14457] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12067] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16462] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16463] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16460] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16461] | NSW   | In buffer area only |

| Commonwealth Land Name                                    | State | Buffer Status       |
|-----------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [16466]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12099]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12090]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12091]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15945]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15944]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [14380]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15413]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15948]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12097]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12096]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16469]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12093]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12095]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [12094]     | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [14361] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [12083] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [12089] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [12068] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [12100] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [14367] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [14358] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [12092] | NSW   | In buffer area only |
| Transport and Regional Services - Airservices Australia   |       |                     |
| Commonwealth Land - Airservices Australia [14465]         | NSW   | In buffer area only |
| Commonwealth Land - Airservices Australia [14389]         | NSW   | In buffer area only |
| Commonwealth Land - Airservices Australia [12057]         | NSW   | In buffer area only |
| Unknown                                                   |       |                     |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Commonwealth Land - [15690] | NSW   | In buffer area only |
| Commonwealth Land - [16283] | NSW   | In buffer area only |
| Commonwealth Land - [16160] | NSW   | In buffer area only |
| Commonwealth Land - [14364] | NSW   | In buffer area only |
| Commonwealth Land - [16161] | NSW   | In buffer area only |
| Commonwealth Land - [14365] | NSW   | In buffer area only |
| Commonwealth Land - [15729] | NSW   | In buffer area only |
| Commonwealth Land - [16116] | NSW   | In buffer area only |
| Commonwealth Land - [14374] | NSW   | In buffer area only |
| Commonwealth Land - [14399] | NSW   | In buffer area only |
| Commonwealth Land - [14373] | NSW   | In buffer area only |
| Commonwealth Land - [14376] | NSW   | In buffer area only |
| Commonwealth Land - [15688] | NSW   | In buffer area only |
| Commonwealth Land - [14375] | NSW   | In buffer area only |
| Commonwealth Land - [15689] | NSW   | In buffer area only |
| Commonwealth Land - [14370] | NSW   | In buffer area only |
| Commonwealth Land - [14371] | NSW   | In buffer area only |
| Commonwealth Land - [15434] | NSW   | In buffer area only |
| Commonwealth Land - [16452] | NSW   | In buffer area only |
| Commonwealth Land - [14378] | NSW   | In buffer area only |
| Commonwealth Land - [14420] | NSW   | In buffer area only |
| Commonwealth Land - [14369] | NSW   | In buffer area only |
| Commonwealth Land - [15883] | NSW   | In buffer area only |
| Commonwealth Land - [15882] | NSW   | In buffer area only |
| Commonwealth Land - [16562] | NSW   | In buffer area only |
| Commonwealth Land - [15436] | NSW   | In buffer area only |
| Commonwealth Land - [15435] | NSW   | In buffer area only |

| Commonwealth Land Name      |  | State | Buffer Status       |
|-----------------------------|--|-------|---------------------|
| Commonwealth Land - [16159] |  | NSW   | In buffer area only |
| Commonwealth Land - [15503] |  | NSW   | In buffer area only |
| Commonwealth Land - [14401] |  | NSW   | In buffer area only |
| Commonwealth Land - [14400] |  | NSW   | In buffer area only |
| Commonwealth Land - [15530] |  | NSW   | In buffer area only |
| Commonwealth Land - [14372] |  | NSW   | In buffer area only |
| Commonwealth Land - [11160] |  | NSW   | In buffer area only |
| Commonwealth Land - [14396] |  | NSW   | In buffer area only |
| Commonwealth Land - [14394] |  | NSW   | In buffer area only |
| Commonwealth Land - [14397] |  | NSW   | In buffer area only |
| Commonwealth Land - [14395] |  | NSW   | In buffer area only |
| Commonwealth Land - [14392] |  | NSW   | In buffer area only |
| Commonwealth Land - [14393] |  | NSW   | In buffer area only |
| Commonwealth Land - [14398] |  | NSW   | In buffer area only |
| Commonwealth Land - [14390] |  | NSW   | In buffer area only |
| Commonwealth Land - [15459] |  | NSW   | In buffer area only |
| Commonwealth Land - [14382] |  | NSW   | In buffer area only |

| Commonwealth Heritage Places                             |       |              | [ Resource Information ] |
|----------------------------------------------------------|-------|--------------|--------------------------|
| Name                                                     | State | Status       | Buffer Status            |
| Historic                                                 |       |              |                          |
| <a href="#">Botany Post Office</a>                       | NSW   | Listed place | In buffer area only      |
| <a href="#">Cape Baily Lighthouse</a>                    | NSW   | Listed place | In buffer area only      |
| <a href="#">Cronulla Post Office</a>                     | NSW   | Listed place | In buffer area only      |
| <a href="#">Marrickville Post Office</a>                 | NSW   | Listed place | In buffer area only      |
| <a href="#">Sydney Airport Air Traffic Control Tower</a> | NSW   | Listed place | In buffer area only      |

| Listed Marine Species |                     |               | [ Resource Information ] |
|-----------------------|---------------------|---------------|--------------------------|
| Scientific Name       | Threatened Category | Presence Text | Buffer Status            |
| Bird                  |                     |               |                          |

| Scientific Name                                                                                                      | Threatened Category   | Presence Text                                                              | Buffer Status   |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------|-----------------|
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                                                       |                       | Species or species habitat known to occur within area                      | In feature area |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                                                                 |                       | Species or species habitat likely to occur within area                     | In feature area |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                                                            |                       | Species or species habitat likely to occur within area overfly marine area | In feature area |
| <a href="#">Ardenna carneipes as Puffinus carneipes</a><br>Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] |                       | Foraging, feeding or related behaviour likely to occur within area         | In feature area |
| <a href="#">Ardenna grisea as Puffinus griseus</a><br>Sooty Shearwater [82651]                                       |                       | Species or species habitat likely to occur within area                     | In feature area |
| <a href="#">Arenaria interpres</a><br>Ruddy Turnstone [872]                                                          |                       | Roosting known to occur within area                                        | In feature area |
| <a href="#">Bubulcus ibis as Ardea ibis</a><br>Cattle Egret [66521]                                                  |                       | Species or species habitat may occur within area overfly marine area       | In feature area |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                                                   |                       | Roosting known to occur within area                                        | In feature area |
| <a href="#">Calidris alba</a><br>Sanderling [875]                                                                    |                       | Roosting known to occur within area                                        | In feature area |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                                             | Endangered            | Species or species habitat known to occur within area overfly marine area  | In feature area |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                                                        | Critically Endangered | Species or species habitat known to occur within area overfly marine area  | In feature area |

| Scientific Name                                                                          | Threatened Category   | Presence Text                                                             | Buffer Status   |
|------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------|-----------------|
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                           | Critically Endangered | Species or species habitat known to occur within area overfly marine area | In feature area |
| <a href="#">Calidris ruficollis</a><br>Red-necked Stint [860]                            |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Calidris subminuta</a><br>Long-toed Stint [861]                              |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]                                |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                     | Vulnerable            | Species or species habitat known to occur within area                     | In feature area |
| <a href="#">Charadrius bicinctus</a><br>Double-banded Plover [895]                       |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877] |                       | Species or species habitat known to occur within area                     | In feature area |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]        |                       | Roosting known to occur within area                                       | In feature area |
| <a href="#">Charadrius ruficapillus</a><br>Red-capped Plover [881]                       | Endangered            | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]           |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                    |                       | Foraging, feeding or related behaviour likely to occur within area        | In feature area |

| Scientific Name                                                                                                 | Threatened Category | Presence Text                                                             | Buffer Status   |
|-----------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|-----------------|
| <a href="#">Diomedea antipodensis gibsoni</a> as <a href="#">Diomedea gibsoni</a><br>Gibson's Albatross [82270] | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                                         | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                                 | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                                           | Endangered          | Species or species habitat may occur within area                          | In feature area |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]                                   |                     | Species or species habitat likely to occur within area                    | In feature area |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]                                  |                     | Species or species habitat may occur within area                          | In feature area |
| <a href="#">Gallinago hardwickii</a><br>Latham's Snipe, Japanese Snipe [863]                                    |                     | Species or species habitat known to occur within area overfly marine area | In feature area |
| <a href="#">Gallinago megala</a><br>Swinhoe's Snipe [864]                                                       |                     | Roosting likely to occur within area overfly marine area                  | In feature area |
| <a href="#">Gallinago stenura</a><br>Pin-tailed Snipe [841]                                                     |                     | Roosting likely to occur within area overfly marine area                  | In feature area |
| <a href="#">Haliaeetus leucogaster</a><br>White-bellied Sea-Eagle [943]                                         |                     | Species or species habitat known to occur within area                     | In feature area |

| Scientific Name                                                                              | Threatened Category   | Presence Text                                                             | Buffer Status   |
|----------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------|-----------------|
| <a href="#">Himantopus himantopus</a><br>Pied Stilt, Black-winged Stilt [870]                |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]                     | Vulnerable            | Species or species habitat known to occur within area overfly marine area | In feature area |
| <a href="#">Lathamus discolor</a><br>Swift Parrot [744]                                      | Critically Endangered | Species or species habitat known to occur within area overfly marine area | In feature area |
| <a href="#">Limicola falcinellus</a><br>Broad-billed Sandpiper [842]                         |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                                  |                       | Species or species habitat known to occur within area                     | In feature area |
| <a href="#">Limosa limosa</a><br>Black-tailed Godwit [845]                                   |                       | Roosting known to occur within area overfly marine area                   | In feature area |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered            | Species or species habitat may occur within area                          | In feature area |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                            | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Merops ornatus</a><br>Rainbow Bee-eater [670]                                    |                       | Species or species habitat may occur within area overfly marine area      | In feature area |
| <a href="#">Monarcha melanopsis</a><br>Black-faced Monarch [609]                             |                       | Species or species habitat known to occur within area overfly marine area | In feature area |

| Scientific Name                                                                       | Threatened Category   | Presence Text                                                             | Buffer Status       |
|---------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------|---------------------|
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]                               | Critically Endangered | Species or species habitat known to occur within area overfly marine area | In feature area     |
| <a href="#">Myiagra cyanoleuca</a><br>Satin Flycatcher [612]                          |                       | Breeding known to occur within area overfly marine area                   | In feature area     |
| <a href="#">Neophema chrysogaster</a><br>Orange-bellied Parrot [747]                  |                       | Species or species habitat may occur within area overfly marine area      | In feature area     |
| <a href="#">Neophema chrysostoma</a><br>Blue-winged Parrot [726]                      |                       | Species or species habitat may occur within area overfly marine area      | In feature area     |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area                     | In feature area     |
| <a href="#">Numenius minutus</a><br>Little Curlew, Little Whimbrel [848]              |                       | Roosting likely to occur within area overfly marine area                  | In feature area     |
| <a href="#">Numenius phaeopus</a><br>Whimbrel [849]                                   |                       | Roosting known to occur within area                                       | In feature area     |
| <a href="#">Pachyptila turtur</a><br>Fairy Prion [1066]                               |                       | Species or species habitat known to occur within area                     | In feature area     |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                     |                       | Species or species habitat known to occur within area                     | In feature area     |
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]                   |                       | Species or species habitat may occur within area                          | In feature area     |
| <a href="#">Phoebastria fusca</a><br>Sooty Albatross [1075]                           | Vulnerable            | Species or species habitat may occur within area                          | In buffer area only |

| Scientific Name                                                                                                                | Threatened Category | Presence Text                                                             | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|---------------------|
| <a href="#">Pluvialis fulva</a><br>Pacific Golden Plover [25545]                                                               |                     | Roosting known to occur within area                                       | In feature area     |
| <a href="#">Pluvialis squatarola</a><br>Grey Plover [865]                                                                      |                     | Roosting known to occur within area overfly marine area                   | In feature area     |
| <a href="#">Recurvirostra novaehollandiae</a><br>Red-necked Avocet [871]                                                       |                     | Roosting known to occur within area overfly marine area                   | In feature area     |
| <a href="#">Rhipidura rufifrons</a><br>Rufous Fantail [592]                                                                    |                     | Species or species habitat known to occur within area overfly marine area | In feature area     |
| <a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a><br>Australian Painted Snipe [77037]               | Endangered          | Species or species habitat known to occur within area overfly marine area | In feature area     |
| <a href="#">Stercorarius skua as Catharacta skua</a><br>Great Skua [823]                                                       |                     | Species or species habitat may occur within area                          | In buffer area only |
| <a href="#">Sternula albifrons as Sterna albifrons</a><br>Little Tern [82849]                                                  |                     | Breeding likely to occur within area                                      | In feature area     |
| <a href="#">Symposiachrus trivirgatus as Monarcha trivirgatus</a><br>Spectacled Monarch [83946]                                |                     | Species or species habitat may occur within area overfly marine area      | In feature area     |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                                          | Vulnerable          | Species or species habitat may occur within area                          | In feature area     |
| <a href="#">Thalassarche bulleri platei as Thalassarche sp. nov.</a><br>Northern Buller's Albatross, Pacific Albatross [82273] | Vulnerable          | Species or species habitat may occur within area                          | In feature area     |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                                                  | Vulnerable          | Species or species habitat likely to occur within area                    | In feature area     |

| Scientific Name                                                                                      | Threatened Category | Presence Text                                                             | Buffer Status   |
|------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|-----------------|
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                          | Endangered          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                    | Endangered          | Foraging, feeding or related behaviour may occur within area              | In feature area |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459] | Vulnerable          | Species or species habitat may occur within area                          | In feature area |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                           | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                   | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In feature area |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                | Vulnerable          | Foraging, feeding or related behaviour known to occur within area         | In feature area |
| <a href="#">Tringa brevipes as Heteroscelus brevipes</a><br>Grey-tailed Tattler [851]                |                     | Roosting known to occur within area                                       | In feature area |
| <a href="#">Tringa incana as Heteroscelus incanus</a><br>Wandering Tattler [831]                     |                     | Roosting known to occur within area                                       | In feature area |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]                              |                     | Species or species habitat known to occur within area overfly marine area | In feature area |
| <a href="#">Xenus cinereus</a><br>Terek Sandpiper [59300]                                            |                     | Roosting known to occur within area overfly marine area                   | In feature area |
| Fish                                                                                                 |                     |                                                                           |                 |

| Scientific Name                                                                                                                 | Threatened Category | Presence Text                                         | Buffer Status   |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------|-----------------|
| <a href="#">Acentronura tentaculata</a><br>Shortpouch Pygmy Pipehorse [66187]                                                   |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Festucalex cinctus</a><br>Girdled Pipefish [66214]                                                                  |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Filicampus tigris</a><br>Tiger Pipefish [66217]                                                                     |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Heraldia nocturna</a><br>Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]   |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Hippichthys penicillus</a><br>Beady Pipefish, Steep-nosed Pipefish [66231]                                          |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Hippocampus abdominalis</a><br>Big-belly Seahorse, Eastern Potbelly Seahorse, New Zealand Potbelly Seahorse [66233] |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Hippocampus whitei</a><br>White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]                               | Endangered          | Species or species habitat known to occur within area | In feature area |
| <a href="#">Histiogamphelus briggsii</a><br>Crested Pipefish, Briggs' Crested Pipefish, Briggs' Pipefish [66242]                |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Lissocampus runa</a><br>Javelin Pipefish [66251]                                                                    |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Maroubra perserrata</a><br>Sawtooth Pipefish [66252]                                                                |                     | Species or species habitat may occur within area      | In feature area |
| <a href="#">Notiocampus ruber</a><br>Red Pipefish [66265]                                                                       |                     | Species or species habitat may occur within area      | In feature area |

| Scientific Name                                                                                                         | Threatened Category | Presence Text                                    | Buffer Status   |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------|-----------------|
| <a href="#">Phyllopteryx taeniolatus</a><br>Common Seadragon, Weedy Seadragon<br>[66268]                                |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Solegnathus spinosissimus</a><br>Spiny Pipehorse, Australian Spiny Pipehorse [66275]                        |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Solenostomus cyanopterus</a><br>Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]                   |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Solenostomus paradoxus</a><br>Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184] |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Stigmatopora argus</a><br>Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]                         |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Stigmatopora nigra</a><br>Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]                   |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Syngnathoides biaculeatus</a><br>Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]   |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Trachyrhamphus bicoarctatus</a><br>Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]   |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Urocampus carinirostris</a><br>Hairy Pipefish [66282]                                                       |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Vanacampus margaritifer</a><br>Mother-of-pearl Pipefish [66283]                                             |                     | Species or species habitat may occur within area | In feature area |
| Mammal                                                                                                                  |                     |                                                  |                 |
| <a href="#">Arctocephalus forsteri</a><br>Long-nosed Fur-seal, New Zealand Fur-seal [20]                                |                     | Species or species habitat may occur within area | In feature area |

| Scientific Name                                                                               | Threatened Category | Presence Text                                                     | Buffer Status       |
|-----------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|---------------------|
| <a href="#">Arctocephalus pusillus</a><br>Australian Fur-seal, Australo-African Fur-seal [21] |                     | Species or species habitat may occur within area                  | In feature area     |
|                                                                                               |                     |                                                                   |                     |
| <a href="#">Dugong dugon</a><br>Dugong [28]                                                   |                     | Species or species habitat may occur within area                  | In feature area     |
| Reptile                                                                                       |                     |                                                                   |                     |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                                   | Endangered          | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                         | Vulnerable          | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]      | Endangered          | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                             | Vulnerable          | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                  | Vulnerable          | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Pelamis platurus</a><br>Yellow-bellied Seasnake [1091]                            |                     | Species or species habitat may occur within area                  | In feature area     |
| Whales and Other Cetaceans                                                                    |                     | [ Resource Information ]                                          |                     |
| Current Scientific Name                                                                       | Status              | Type of Presence                                                  | Buffer Status       |
| Mammal                                                                                        |                     |                                                                   |                     |
| <a href="#">Balaenoptera acutorostrata</a><br>Minke Whale [33]                                |                     | Species or species habitat may occur within area                  | In buffer area only |

| Current Scientific Name                                                               | Status     | Type of Presence                                                   | Buffer Status       |
|---------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Balaenoptera borealis</a><br>Sei Whale [34]                               | Vulnerable | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                              |            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                              | Endangered | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Balaenoptera physalus</a><br>Fin Whale [37]                               | Vulnerable | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39]                           |            | Foraging, feeding or related behaviour may occur within area       | In feature area     |
| <a href="#">Delphinus delphis</a><br>Common Dolphin, Short-beaked Common Dolphin [60] |            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]                      | Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Grampus griseus</a><br>Risso's Dolphin, Grampus [64]                      |            | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Lagenorhynchus obscurus</a><br>Dusky Dolphin [43]                         |            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]                         |            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]                               |            | Species or species habitat likely to occur within area             | In buffer area only |

| Current Scientific Name                                                                                 | Status | Type of Presence                                       | Buffer Status       |
|---------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------|---------------------|
| <a href="#">Stenella attenuata</a><br>Spotted Dolphin, Pantropical Spotted Dolphin [51]                 |        | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Tursiops aduncus</a><br>Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418] |        | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Tursiops truncatus s. str.</a><br>Bottlenose Dolphin [68417]                                |        | Species or species habitat may occur within area       | In feature area     |

### Extra Information

| State and Territory Reserves |                 |       | <a href="#">[ Resource Information ]</a> |
|------------------------------|-----------------|-------|------------------------------------------|
| Protected Area Name          | Reserve Type    | State | Buffer Status                            |
| Boat Harbour                 | Aquatic Reserve | NSW   | In buffer area only                      |
| Cape Banks                   | Aquatic Reserve | NSW   | In buffer area only                      |
| Georges River                | National Park   | NSW   | In buffer area only                      |
| Kamay Botany Bay             | National Park   | NSW   | In buffer area only                      |
| Royal                        | National Park   | NSW   | In buffer area only                      |
| Shiprock                     | Aquatic Reserve | NSW   | In buffer area only                      |
| Towra Point                  | Nature Reserve  | NSW   | In feature area                          |
| Towra Point                  | Aquatic Reserve | NSW   | In feature area                          |
| Wolli Creek                  | Regional Park   | NSW   | In buffer area only                      |

| Nationally Important Wetlands                  |       | <a href="#">[ Resource Information ]</a> |
|------------------------------------------------|-------|------------------------------------------|
| Wetland Name                                   | State | Buffer Status                            |
| <a href="#">Botany Wetlands</a>                | NSW   | In buffer area only                      |
| <a href="#">Eve St. Marsh, Arncliffe</a>       | NSW   | In buffer area only                      |
| <a href="#">Towra Point Estuarine Wetlands</a> | NSW   | In feature area                          |

| EPBC Act Referrals                          |           |                  |                   |                     | <a href="#">[ Resource Information ]</a> |
|---------------------------------------------|-----------|------------------|-------------------|---------------------|------------------------------------------|
| Title of referral                           | Reference | Referral Outcome | Assessment Status | Buffer Status       |                                          |
| <a href="#">Kamay Ferry Wharves Project</a> | 2020/8825 |                  | Post-Approval     | In buffer area only |                                          |

| Title of referral                                                                | Reference | Referral Outcome      | Assessment Status           | Buffer Status       |
|----------------------------------------------------------------------------------|-----------|-----------------------|-----------------------------|---------------------|
| Controlled action                                                                |           |                       |                             |                     |
| <a href="#">Construction and operation of the Westconnex New M5, Sydney, NSW</a> | 2015/7520 | Controlled Action     | Post-Approval               | In buffer area only |
| <a href="#">Cook Cove Southern Precinct development, Sydney, NSW</a>             | 2016/7767 | Controlled Action     | Post-Approval               | In buffer area only |
| <a href="#">Cooks Cove Development Project</a>                                   | 2006/2685 | Controlled Action     | Post-Approval               | In buffer area only |
| <a href="#">Expansion of Port Botany facilities</a>                              | 2002/543  | Controlled Action     | Post-Approval               | In buffer area only |
| <a href="#">Kurnell Sand Extraction and Backfilling Proposal</a>                 | 2002/631  | Controlled Action     | Completed                   | In buffer area only |
| <a href="#">Residential development, 11 Jennifer Street, Little Bay, NSW</a>     | 2018/8170 | Controlled Action     | Further Information Request | In buffer area only |
| <a href="#">Sand Reclamation to Towra Beach</a>                                  | 2003/1085 | Controlled Action     | Post-Approval               | In feature area     |
| <a href="#">Southern section of the Bonnie Doon Golf Course, Pagewood, NSW</a>   | 2015/7479 | Controlled Action     | Completed                   | In buffer area only |
| Not controlled action                                                            |           |                       |                             |                     |
| <a href="#">Botany Bay Cable Project</a>                                         | 2007/3552 | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Botany Rail Duplication</a>                                          | 2019/8566 | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">BP/Mobil Pipeline to Kingsford Smith Airport</a>                     | 2000/104  | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Carbon Black Plant Upgrade</a>                                       | 2006/2785 | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">construction of a road linking Newbridge Road and Nuwarra Road</a>   | 2004/1843 | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Construction Of Two New Fuel Processing Plants On Existing Site</a>  | 2003/1243 | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Decommissioning of Army Depot, Haberfield</a>                        | 2001/217  | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Environmental Works</a>                                              | 2001/396  | Not Controlled Action | Completed                   | In buffer area only |
| <a href="#">Extension of Hale Street to Foreshore Road and Associated Works</a>  | 2008/4035 | Not Controlled Action | Completed                   | In buffer area only |

| Title of referral                                                                                            | Reference | Referral Outcome      | Assessment Status | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------------|---------------------|
| Not controlled action                                                                                        |           |                       |                   |                     |
| <a href="#">Extension to Lucas Heights production building</a>                                               | 2003/1114 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Georges River Program 2</a>                                                                      | 2003/999  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a> | 2015/7522 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">INDIGO Central Submarine Telecommunications Cable</a>                                            | 2017/8127 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Industrial Subdivision</a>                                                                       | 2004/1859 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Industrial Subdivision, 262-276 Captain Cook Drive</a>                                           | 2004/1899 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Installation of viewing platform</a>                                                             | 2005/2138 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Little Bay Residential Subdivision</a>                                                           | 2002/873  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Noxious weed removal and controlled burn</a>                                                     | 2003/1272 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Rabbit Control Anzac Rifle Range</a>                                                             | 2005/1940 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Redevelopment of the Cronulla Sharks Leagues Club</a>                                            | 2011/5889 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Rehabilitation works of the Coogee Sewer Diversion Submain - Maxwell Avenue, Mar</a>             | 2004/1683 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Shipment of Spent Nuclear Fuel to USA</a>                                                        | 2007/3672 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">subdivision and development on the Rhodes Peninsula for residential and commerci</a>             | 2003/1249 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Sydney Desalination Plant</a>                                                                    | 2005/2331 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Sydney Primary Loop Gas Pipeline</a>                                                             | 2006/2622 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Taleb Property Pty Ltd, Tempe Tyres Warehouse project, Captain Cook Drive, Kurnell</a>           | 2017/8068 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Undertake a controlled burn of the Eastern Suburbs Banksia Scrub at Byrne Cresce</a>             | 2004/1728 | Not Controlled Action | Completed         | In buffer area only |

| Title of referral                                                                                                  | Reference | Referral Outcome                          | Assessment Status | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------|-------------------|---------------------|
| Not controlled action                                                                                              |           |                                           |                   |                     |
| <a href="#">Upgrade of Captain Cook Drive</a>                                                                      | 2012/6286 | Not Controlled Action                     | Completed         | In buffer area only |
| <a href="#">Widening of the M5 Southwest Motorway</a>                                                              | 2010/5665 | Not Controlled Action                     | Completed         | In buffer area only |
| Not controlled action (particular manner)                                                                          |           |                                           |                   |                     |
| <a href="#">Bangor Bypass</a>                                                                                      | 2002/756  | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>                                                          | 2017/7996 | Not Controlled Action (Particular Manner) | Post-Approval     | In feature area     |
| <a href="#">Kareela, Garnet Road Rezoning</a>                                                                      | 2020/8841 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">Kareela Flying-fox Camp and Camellia Gardens Dispersal 2017</a>                                        | 2017/7920 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">Transport of intermediate level radioactive waste to Lucas Heights, NSW</a>                            | 2015/7437 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">Transport of OPAL Spent Fuel to France in 2018 and 2025</a>                                            | 2016/7841 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">Trial dispersal of Kareela Flying-fox camp, Bates Drive, Kareela, NSW</a>                              | 2015/7474 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| <a href="#">Veg removal to increase buffer betwn Kareela GHFF camp &amp; residences &amp; school, Kareela, NSW</a> | 2014/7222 | Not Controlled Action (Particular Manner) | Post-Approval     | In buffer area only |
| Referral decision                                                                                                  |           |                                           |                   |                     |
| <a href="#">Breeding program for Grey Nurse Sharks</a>                                                             | 2007/3245 | Referral Decision                         | Completed         | In feature area     |
| <a href="#">Relocation of Grey-Headed Flying-Fox Colony</a>                                                        | 2008/4568 | Referral Decision                         | Completed         | In buffer area only |
| <a href="#">Summer Hill Flour Mills Residential &amp; Commercial development</a>                                   | 2011/5859 | Referral Decision                         | Completed         | In buffer area only |

| Biologically Important Areas                    |              |                            |                     |
|-------------------------------------------------|--------------|----------------------------|---------------------|
| Scientific Name                                 | Behaviour    | Presence                   | Buffer Status       |
| Dolphins                                        |              |                            |                     |
| <a href="#">Tursiops aduncus</a>                |              |                            |                     |
| Indo-Pacific/Spotted Bottlenose Dolphin [68418] | Breeding     | Likely to occur            | In feature area     |
| Sharks                                          |              |                            |                     |
| <a href="#">Carcharias taurus</a>               |              |                            |                     |
| Grey Nurse Shark [64469]                        | Foraging     | Known to occur             | In feature area     |
| <a href="#">Carcharodon carcharias</a>          |              |                            |                     |
| White Shark [64470]                             | Distribution | Known to occur             | In buffer area only |
| Whales                                          |              |                            |                     |
| <a href="#">Megaptera novaeangliae</a>          |              |                            |                     |
| Humpback Whale [38]                             | Foraging     | Known to occur             | In buffer area only |
| Bioregional Assessments                         |              |                            |                     |
| SubRegion                                       | BioRegion    | Website                    | Buffer Status       |
| Sydney                                          | Sydney Basin | <a href="#">BA website</a> | 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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## Appendix D: BioNet Atlas Search Results

Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Location accuracy varies. Records of species listed under the Sensitive Species Data Policy are identified in the Sensitivity Class column (A rounded to 0.1Å°C, AA rounded to 0.01Å°C).

Concomitant with the State of NSW through the Department of Planning, Infrastructure and Environment, the NSW Government has agreed to fund the project through the NSW Government's Infrastructure Fund. The project is a priority for the NSW Government and is a key component of the NSW Government's Infrastructure Strategy.

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Sea ch c te a Publ c Repo t of all Val d Reco ds of Ent tes n selected a ea [No th -33.95 West 151.09 East 151.19 South -34.05] etu ned a total of 30,813 eco ds of 1 545 spec es.Repo t gene ated on 23/03/2023 3 41 PM

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|                     |      |       |      |   |     |     |     |     |   |    |    |   |     |   |   |   |   |       |            |           |   |   |   |     |   |     |          |   |   |   |   |   |    |      |    |     |     |      |     |      |    |        |        |   |      |       |   |   |    |   |   |        |
|---------------------|------|-------|------|---|-----|-----|-----|-----|---|----|----|---|-----|---|---|---|---|-------|------------|-----------|---|---|---|-----|---|-----|----------|---|---|---|---|---|----|------|----|-----|-----|------|-----|------|----|--------|--------|---|------|-------|---|---|----|---|---|--------|
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 9/04/2007  | 9/04/2007 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683452 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 9/04/2007  | 9/04/2007 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683453 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 6/03/2007  | 6/03/2007 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683454 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 09/04/2006 | 9/04/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683455 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 09/04/2007 | 9/04/2007 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683456 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683457 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683458 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683459 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683460 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683461 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683462 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683463 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683464 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683465 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683466 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683467 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683468 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683469 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683470 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683471 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683472 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683473 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683474 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683475 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683476 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683477 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683478 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683479 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683480 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683481 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683482 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683483 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto | a | au | eu | G | een | E | L | P | V | 10483 | 03/03/2006 | 3/03/2006 | 1 | 4 | T | Val | d | and | accepted | W | L | D | M | P | 11 | Aust | al | and | -34 | 0318 | 151 | 1662 | 56 | 330700 | 632800 | 5 | Hand | Caugh | M | c | ch | p | = | 683484 |
| DP E Data 1/50M/338 | 1616 | Fauna | Amph | a | Hyd | dae | 248 | Lto |   |    |    |   |     |   |   |   |   |       |            |           |   |   |   |     |   |     |          |   |   |   |   |   |    |      |    |     |     |      |     |      |    |        |        |   |      |       |   |   |    |   |   |        |



|                       |      |       |          |     |     |     |     |   |    |   |    |   |     |   |       |           |           |   |   |     |   |     |          |   |              |       |          |         |    |        |         |   |      |         |      |   |      |    |   |        |   |   |    |   |   |        |
|-----------------------|------|-------|----------|-----|-----|-----|-----|---|----|---|----|---|-----|---|-------|-----------|-----------|---|---|-----|---|-----|----------|---|--------------|-------|----------|---------|----|--------|---------|---|------|---------|------|---|------|----|---|--------|---|---|----|---|---|--------|
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | Male | w | nupt | al | p | esent  | M | c | ch | p | = | 693103 |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6934F3 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 9/04/2007 | 9/04/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6945CE |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6947A3 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6947D4 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6978A1 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 1/05/2007 | 1/05/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6978B4 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 698452 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 6994C2 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 | 5 | Hand | Caught. | M    | c | ch   | p  | = | 699472 |   |   |    |   |   |        |
| DP E Data 1/SEM00P38H | 3166 | Fauna | Amphib a | Hyf | dac | 248 | Lto | a | au | e | em | E | 1,P | V | 10483 | 6/03/2007 | 6/03/2007 | 4 | T | Val | d | and | accepted | w | LDMP0131Aust | aland | -34.0318 | 15.1662 | 56 | 330700 | 6232800 |   |      |         |      |   |      |    |   |        |   |   |    |   |   |        |

[illegible]

|                       |      |       |          |            |                                             |                 |       |           |           |           |   |    |                                            |                                           |          |          |        |         |         |                                                                                                                               |                                                                                                                              |
|-----------------------|------|-------|----------|------------|---------------------------------------------|-----------------|-------|-----------|-----------|-----------|---|----|--------------------------------------------|-------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Elements ASPG 74946   | 2013 | Fauna | Rept i a | De mochel  | 365 De mocheleys co acs Leatha bacELP       | E               | 10216 | #####     | #####     | 1         | 4 | M  | Val d and accepted w LPJGIG07247 Sydney Wa | -34.018                                   | 151.1641 | 56       | 330529 | 621694  | 200     | Event - Catego y Event at sea. An mal Reco d numbre MFH1428 An mal appea ed to elease tse f                                   |                                                                                                                              |
| DP E Defaua 93414-035 | 216  | Fauna | Aves     | Anat dae   | 1761 Droya a us al s                        |                 | 10580 | 312/1590  | 3/12/1590 | 1         | 4 | 0  | Val d and accepted w 15529-035 Ku nell Lag | -34.036                                   | 151.1578 | 56       | 332004 | 6234190 | 1000    | MAP NUMBER ALTERED FROM 9029                                                                                                  |                                                                                                                              |
| DP E Defaua 105334-03 | 23   | Fauna | Aves     | Columb     | 1836 P i nopus tpe bus                      |                 | 10709 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 13190-035 Ku nell Lag | -33.8651                                  | 151.1012 | 56       | 324562 | 6240091 | 1000    | Flow into w ndow                                                                                                              |                                                                                                                              |
| Aust al an ARBB850221 | 86   | Fauna | Aves     | D omere d  | 1900 D omerelea exulans                     | Wande ng EL P   | E     | 10907     | #####     | #####     | 4 | K  | Val d and accepted w 14885-084 WANDA BE    | -34.0318                                  | 151.1678 | 56       | 330855 | 6232809 | 100     | Band ng Recor Age U Agged by Unknown Method FOUND BEACHWASHED OR FLOATING IN SEA OR FRESHWATER STATUS WAS DEAD AND THE BAND W |                                                                                                                              |
| Aust al an ARBB850221 | 86   | Fauna | Aves     | D omere d  | 1900 D omerelea exulans                     | Wande ng EL P   | E     | 10907     | #####     | #####     | 4 | M  | Val d and accepted w 14885-CFG BONNA PO    | -33.9984                                  | 151.1845 | 56       | 332328 | 6236533 | 100     | Band ng Recor Age U Agged by Method FOUND SICK OR INJURED STATUS WAS RELEASED ALIVE WITH THE BAND.                            |                                                                                                                              |
| Aust al an ARBB850221 | 86   | Fauna | Aves     | D omere d  | 1900 D omerelea exulans                     | Wande ng EL P   | E     | 10907     | #####     | #####     | 4 | M  | Val d and accepted w 14885-F10 BOTANY BJ   | -33.9651                                  | 151.1845 | 56       | 332262 | 6240230 | 100     | Band ng Recor Age U Agged by Method BAND FOUND OR INJURED STATUS WAS RELEASED ALIVE WITH THE BAND.                            |                                                                                                                              |
| DP E Defaua 108434-03 | 91   | Fauna | Aves     | D omere d  | 1910 Thallassa che cauta                    | Shy Abact C.V.P | V     | 10918     | 811/1981  | 8/11/1981 | 1 | 4  | A                                          | Val d and accepted w 13746-H0 Wanda Be    | -34.045  | 151.1616 | 56     | 330004  | 6231390 | 1000                                                                                                                          | Band ng Recor Age U Agged by Method FOUND BEACHWASHED OR FLOATING IN SEA OR FRESHWATER STATUS WAS DEAD AND THE BAND WAS REMC |
| DP E Defaua 106449-03 | 88   | Fauna | Aves     | D omere d  | 1918 Thallassa che melano Black-b ow V.P    |                 | 10919 | #####     | #####     | 1         | 4 | A  | Val d and accepted w 13746-H0 Wanda Be     | -34.045                                   | 151.1616 | 56       | 330004 | 6231390 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 106450-03 | 88   | Fauna | Aves     | D omere d  | 1918 Thallassa che melano Black-b ow V.P    |                 | 10919 | #####     | #####     | 1         | 4 | K  | Val d and accepted w 13746-H0 Wanda Be     | -34.045                                   | 151.1616 | 56       | 332192 | 6231390 | 1000    |                                                                                                                               |                                                                                                                              |
| Aust al an ARBB850221 | 72   | Fauna | Aves     | P cella d  | 1922 A denna ca na ges                      | Flesh-Fleot V.P | J,K   | 10896     | #####     | #####     | 4 | K  | Accepted ACD.                              | ABBB-CFG CRONULLA                         | -34.0318 | 151.1845 | 56     | 332394  | 6232837 | 100                                                                                                                           | Band ng Recor Age U Agged by Method FOUND BEACHWASHED OR FLOATING IN SEA OR FRESHWATER STATUS WAS DEAD AND THE BAND WAS REMC |
| DP E Defaua 112559-03 | 955  | Fauna | Aves     | P cella d  | 1982 Pte od om a n gem Black-w ng V.P       |                 | 10893 | 2/02/1964 | 2/02/1964 | 1         | 4 | A  | Accepted ACD                               | 4266-H0 C ma la Be                        | -34.0456 | 151.1595 | 56     | 330113  | 6231255 | 1000                                                                                                                          | Coastal Spec es found beachwashed on sub eg on adjo ng accepted d t but on                                                   |
| DP E Defaua 100441-03 | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | 3/08/1985 | 3/08/1985 | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 102037-03 | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 106555-03 | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 106556-03 | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 108495-03 | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| Sydney Met SLAR07560  | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| Tow a Po r SRMA0609   | 197  | Fauna | Aves     | A de dae   | 2052 Botau us po c lop us Aust alia EL P    |                 | 10105 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 15553-035 Woolloowa   | -34.0318                                  | 151.1345 | 56       | 327777 | 6232754 | 1000    |                                                                                                                               |                                                                                                                              |
| DP E Defaua 518421002 | 196  | Fauna | Aves     | A de dae   | 2070 koly ychus flav coll s                 | Black t the V.P |       | 10441     | #####     | #####     | 1 | 4  | 0                                          | Val d and accepted w 114821022 Pel can Po | -34.039  | 151.1426 | 56     | 328486  | 6234746 | 10                                                                                                                            |                                                                                                                              |
| DP E Defaua 95105-035 | 218  | Fauna | Aves     | Acc p t da | 2099 C. cus ass m s                         | Spotted Hal V.P |       | 20334     | #####     | #####     | 1 | 4  | 0                                          | Val d and accepted w 13736-035 C ma la Be | -34.039  | 151.1574 | 56     | 329904  | 6231990 | 100                                                                                                                           |                                                                                                                              |
| W lf de Re SP9G 6061  | 218  | Fauna | Aves     | Acc p t da | 2099 C. cus ass m s                         | Spotted Hal V.P |       | 20334     | #####     | #####     | 4 | WR | Val d and accepted w LPJGIG054159 Box Road | -34.0241                                  | 151.1228 | 56       | 326684 | 623577  | 30      | Encounte b oad Unknown Encounte na ow Unknown                                                                                 |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062 Oythe leas  | -34.0169                                  | 151.1763 | 56       | 331607 | 6234466 | 100     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 2         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0142                                  | 151.1813 | 56       | 332067 | 6234783 | 200     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 226  | Fauna | Aves     | Acc p t da | 2104 Hal aetulus leucogastus Wn the-bel V.P |                 | 20322 | #####     | #####     | 1         | 4 | 0  | Val d and accepted w 1148A0062A ound the   | -34.0191                                  | 151.1641 | 56       | 330489 | 6234212 | 500     |                                                                                                                               |                                                                                                                              |
| Botany Bay SQA1001012 | 22   |       |          |            |                                             |                 |       |           |           |           |   |    |                                            |                                           |          |          |        |         |         |                                                                                                                               |                                                                                                                              |

[illegible]

|                     |     |       |      |           |                      |                  |       |       |    |   |   |                                           |          |          |          |        |         |         |     |
|---------------------|-----|-------|------|-----------|----------------------|------------------|-------|-------|----|---|---|-------------------------------------------|----------|----------|----------|--------|---------|---------|-----|
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w L10A09062Tow a Po n  | -34.0011 | 151.1621 | 56       | 330601 | 6236307 | 100     |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w L10A09062Oynte       | less     | -34.0102 | 151.1813 | 56     | 330607  | 6236301 | 100 |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 14 | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w L10A09062Tow a Po n  | -34.0007 | 151.1471 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w L10A09062Tow a S p1  | -34.0020 | 151.1291 | 56       | 328892 | 6235446 | 300     |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 5  | 4 | 0 | Val d and accepted w L10A09062S and p f   | -34.0079 | 151.153  | 56       | 329435 | 6235431 | 100     |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09062F ont the s | -34.0004 | 151.1567 | 56       | 329777 | 6235804 | 100     |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 1  | 4 | 0 | Accepted DUP                              | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 49 | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 2  | 4 | 0 | Accepted DUP                              | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09062Tow a S p1  | -34.0020 | 151.1291 | 56       | 328892 | 6235446 | 300     |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 1  | 4 | 0 | Accepted DUP                              | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w L10A09062Oynte       | less     | -34.0102 | 151.1813 | 56     | 330607  | 6236301 | 100 |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | ont p Dysto E1,P | 10386 | ##### | 3  | 4 | 0 | Val d and accepted w L10A09061F ont m2    | -34.0020 | 151.1291 | 56       | 327254 | 6234028 | 50      |     |
| Botany Bay SQA1000C | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys long  |                  |       |       |    |   |   |                                           |          |          |          |        |         |         |     |

|                     |     |       |      |           |                      |        |     |        |      |       |       |       |    |   |   |                                          |          |          |          |        |         |         |     |
|---------------------|-----|-------|------|-----------|----------------------|--------|-----|--------|------|-------|-------|-------|----|---|---|------------------------------------------|----------|----------|----------|--------|---------|---------|-----|
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 4  | 4 | 0 | Val d and accepted w LDAO9602 Tow a Sp   | -34.0077 | 151.1517 | 56       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9602 Tow a Po n | -34.0001 | 151.1621 | 36       | 326361 | 3263707 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 Oythe      | leas     | -34.0102 | 151.1763 | 36     | 331607  | 3244866 | 100 |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 32 | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0200 | 151.1291 | 36       | 327254 | 3240208 | 50      |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 4  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9602 Tow a Po n | -34.0001 | 151.1621 | 36       | 326361 | 3263707 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 Oythe      | leas     | -34.0102 | 151.1763 | 36     | 331607  | 3244866 | 100 |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0077 | 151.1471 | 36       | 328892 | 3235446 | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 3  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0035 | 151.1584 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 2  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0102 | 151.1763 | 36       | 331607 | 3244866 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I c f cl w | -34.0035 | 151.1584 | 36       | 328922 | 3235446 | 100     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 | Val d and accepted w LDAO9606 I on t2    | -34.0109 | 151.1411 | 36       | 328354 | 324747  | 300     |     |
| Botany Bay SQA10002 | 130 | Fauna | Aves | Haemaphys | 2178 Haemaphys longi | onst P | Oct | Pyeste | E1,P | 10386 | ##### | ##### | 1  | 4 | 0 |                                          |          |          |          |        |         |         |     |

|                      |                          |                                              |             |       |    |     |                                           |          |         |    |        |         |     |
|----------------------|--------------------------|----------------------------------------------|-------------|-------|----|-----|-------------------------------------------|----------|---------|----|--------|---------|-----|
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB8892 | GZ35446 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 2 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ34783 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 35 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 50  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p n   | -34.0001 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1867 | 56 | ZB3273 | GZ41393 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0603A f c eal w | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0601The Pel p   | -34.0222 | 13.1316 | 56 | ZB7240 | GZ38008 | 30  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0601Pel o m p   | -34.0139 | 13.1411 | 56 | ZB8834 | GZ47747 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p n   | -34.0001 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ35446 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1867 | 56 | ZB3273 | GZ41393 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 37 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0601Pel o m p   | -34.0139 | 13.1411 | 56 | ZB8834 | GZ47747 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ35446 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 25 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0603A f c eal w | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0603A f c eal w | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 3  | 4 0 | Val d and accepted w LDUAS0601Pel o m p   | -34.0139 | 13.1411 | 56 | ZB8834 | GZ47747 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 14 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0601 om e       | -34.0077 | 13.1365 | 56 | ZB7298 | GZ38781 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 8  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 17 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 13 | 4 0 | Val d and accepted w LDUAS0601 om e       | -34.0077 | 13.1365 | 56 | ZB7298 | GZ38781 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 37 | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Sand ip f   | -34.0079 | 15.1571 | 56 | ZB9435 | GZ35431 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ34783 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 7  | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 41 | 4 0 | Val d and accepted w LDUAS0601 om Geo j   | -33.997  | 15.1427 | 56 | ZB8464 | GZ62624 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 3  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 3  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0603A f c eal w | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 35 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 1  | 4 0 | Val d and accepted w LDUAS0601 om e       | -34.0077 | 13.1365 | 56 | ZB7298 | GZ38781 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 16 | 4 0 | Val d and accepted w LDUAS0601 om Geo j   | -33.997  | 15.1427 | 56 | ZB8464 | GZ62624 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ34783 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1854 | 56 | ZB3254 | GZ40928 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 15 | 4 0 | Val d and accepted w LDUAS0601 om Geo j   | -33.997  | 15.1427 | 56 | ZB8464 | GZ62624 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ34783 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1854 | 56 | ZB3273 | GZ41393 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 4  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 38 | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 9  | 4 0 | Val d and accepted w LDUAS0601 om Geo j   | -33.997  | 15.1427 | 56 | ZB8464 | GZ62624 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.039  | 15.1411 | 56 | ZB9435 | GZ35431 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Oyste leas  | -04.0122 | 14.1871 | 56 | ZB8892 | GZ34783 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1854 | 56 | ZB3254 | GZ40928 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 5  | 4 0 | Val d and accepted w LDUAS0601 om p       | -34.0037 | 13.1364 | 56 | ZB7267 | GZ38866 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0601Pel o m p   | -34.0139 | 13.1411 | 56 | ZB8834 | GZ47747 | 300 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 23 | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1854 | 56 | ZB3273 | GZ41393 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s p t   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Southe n i  | -34.02   | 15.1854 | 56 | ZB3254 | GZ40928 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0603A f c eal w | -34.035  | 15.1584 | 56 | ZB9887 | GZ32435 | 200 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602Tou s n l   | -34.0077 | 15.1813 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 9  | 4 0 | Val d and accepted w LDUAS0601 om Tz to   | -34.0021 | 15.1621 | 56 | ZB7274 | GZ30208 | 100 |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0601 om e       | -34.0037 | 13.1365 | 56 | ZB7298 | GZ38781 | 20  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P end Oyste E.L.P. | 10396 ##### | ##### | 2  | 4 0 | Val d and accepted w LDUAS0602The old oys | -34.0163 | 13.1396 | 56 | ZB8213 | GZ34480 | 80  |
| Batony Bay SQA01A001 | 130 Fauna Aves Haematop. | 2178 Haematopus long. ost P                  |             |       |    |     |                                           |          |         |    |        |         |     |

|                     |     |       |      |           |      |                    |       |          |      |       |       |    |   |   |                      |              |          |          |          |    |        |         |     |
|---------------------|-----|-------|------|-----------|------|--------------------|-------|----------|------|-------|-------|----|---|---|----------------------|--------------|----------|----------|----------|----|--------|---------|-----|
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.1867 | 56 | 332577 | 6234793 | 100 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 24 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 327254 | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 36 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0202 | 151.1365 | 56 | 327607 | 6235366 | 36  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 36 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0202 | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 24 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 327254 | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0202 | 151.1365 | 56 | 327607 | 6235366 | 36  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 40 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 11 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1783 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 13 | 4 | 0 | Accepted a DUP       | WLDIA09001F  | om the e | -34.0202 | 151.129  | 56 | 327245 | 6233909 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 13 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1316 | 56 | 327492 | 6233808 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1427 | 56 | 328491 | 6234935 | 150 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 14 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1854 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 28 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 28 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0307 | 151.1361 | 56 | 327867 | 6235826 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 328491 | 6234935 | 150 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1783 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 10 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 10 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 6  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 6  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0307 | 151.1361 | 56 | 327867 | 6235826 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 4  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -33.997  | 151.1427 | 56 | 328464 | 6236624 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 10 | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 328491 | 6234935 | 150 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 10 | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 1  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 28 | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the P | -34.0307 | 151.1365 | 56 | 327867 | 6235826 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 328491 | 6234935 | 150 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.1471 | 56 | 328892 | 6235446 | 300 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1783 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09001F  | om the T | -34.0202 | 151.1291 | 56 | 32754  | 6234028 | 50  |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 | Fauna | Aves | Haemaphys | 2178 | Haemaphysopus long | oat P | De OystE | E1,P | 10386 | ##### | 2  | 4 | 0 | Val d and accepted w | WLDIA09002Zy | leas     | -34.012  | 151.183  | 56 | 332067 | 6234783 | 200 |
| Botany Bay SQA10001 | 130 |       |      |           |      |                    |       |          |      |       |       |    |   |   |                      |              |          |          |          |    |        |         |     |

|                      |     |       |      |              |      |                   |     |   |           |        |       |            |           |   |   |   |     |   |     |          |   |             |   |   |     |    |         |          |    |        |         |     |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
|----------------------|-----|-------|------|--------------|------|-------------------|-----|---|-----------|--------|-------|------------|-----------|---|---|---|-----|---|-----|----------|---|-------------|---|---|-----|----|---------|----------|----|--------|---------|-----|----------|---------|----------|-------|-----|-------|--------|-------|-------|--------|-------|-------|-------|-----|-------|---------|----|---|----|-----|---------|
| Botany Bay SDA151041 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151041 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Aa       | on each | slet.    |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151041 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | on platf | m.      |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151041 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 3 | 3 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Aa       | on each | slet.    |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151041 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 3 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | clud     | ng      | one juve | n     | le. |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151056 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151056 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151096 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 3 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Aa       | on      | st       | nd    | on  | platf | m      | and   | one   | stand  | on    | the   | slet. |     |       |         |    |   |    |     |         |
| Botany Bay SDA151091 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 1 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151091 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 1 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Stand    | ng      | on       | platf | m.  |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151111 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Stand    | ng      | on       | platf | m.  |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA151121 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | on     | the   | platf | m      | and   | one   | stand | on  | the   | slet.   |    |   |    |     |         |
| Botany Bay SDA16002  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | Pos     | t        | and   | ng  | on    | wooden | platf | m     | and    | one   | stand | on    | the | slet. |         |    |   |    |     |         |
| Botany Bay SDA16002  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA16082  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA17022  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| Botany Bay SDA17022  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | in     | small | slet. | Anothe | adult | on    | bank  | off | by    | flushed | by | a | of | own | Goshawk |
| Botany Bay SDA17022  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | on     | the   | platf | m      | and   | one   | stand | on  | the   | slet.   |    |   |    |     |         |
| Botany Bay SDA17022  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 5 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | on     | the   | platf | m      | and   | one   | stand | on  | the   | slet.   |    |   |    |     |         |
| Botany Bay SDA17101  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | on     | the   | platf | m      | and   | one   | stand | on  | the   | slet.   |    |   |    |     |         |
| Botany Bay SMPR2012  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | Pos     | t        | and   | ng  | on    | wooden | platf | m     | and    | one   | stand | on    | the | slet. |         |    |   |    |     |         |
| Botany Bay SMPR2012  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15A04 0020 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15A04 0020 | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 4 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 | Two      | adult   | s        | and   | one | juve  | in     | small | slet. | Anothe | adult | on    | bank  | off | by    | flushed | by | a | of | own | Goshawk |
| DP E Data 15A04066   | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | 1/03/2016  | 1/03/2016 | 1 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | 21/11/2000 | 7/11/2000 | 1 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | 6/11/2000  | 6/11/2000 | 1 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     | 2 | 4 | 0 | Val | d | and | accepted | W | LD14A09063A | f | t | cal | wn | -34.035 | 151.1584 | 56 | 329987 | 6232435 | 200 |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |
| DP E Data 15U100055  | 130 | Fauna | Aves | Haematopetes | 2178 | Haematopus longus | ost | P | End Oyste | E.L.P. | 10386 | #####      | #####     |   |   |   |     |   |     |          |   |             |   |   |     |    |         |          |    |        |         |     |          |         |          |       |     |       |        |       |       |        |       |       |       |     |       |         |    |   |    |     |         |

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|---------------------|-----|-------|------|----|-----|------|--------------------|-----------------|-------|----------------------|----------------------|---|---|-------------------------------|------------|---------|----------|----|--------|---------|-------|
| DOE-10840-131125-03 | 100 | Fauna | Aves | La | dac | 2325 | Oryzopsis on fusca | Sooty Te N V-P  | 10770 | 00000000000000000000 | 1                    | 4 | A | Val d and accepted w/13593-03 | Cona Le Sp | 34-0484 | 151-1512 | 56 | 323049 | 6230394 | 10000 |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2325 | Oryzopsis on fusca | Sooty Te N V-P  | 10770 | 1071/1051            | 00000000000000000000 | 4 | A | Val d and accepted w/13746-10 | Wanda Be   | 34-0484 | 151-1516 | 56 | 323049 | 6231390 | 10000 |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna | Aves | La | dac | 2341 | Ste nula alb f     | Little Te N ELP | C I K | 10769                | 00000000000000000000 | 4 | T | Val d and accepted w/1ABBS-01 | TOWPA      | 34-0451 | 151-1512 | 56 | 323028 | 6234629 |       |
| Aut d an ABBS0313   | 100 | Fauna |      |    |     |      |                    |                 |       |                      |                      |   |   |                               |            |         |          |    |        |         |       |

|                      |    |       |      |    |     |      |     |    |    |   |   |     |        |    |   |   |   |   |   |   |       |       |       |   |   |                                                   |         |    |        |         |     |      |       |     |   |         |         |       |    |        |         |     |      |      |        |          |          |         |     |          |       |          |      |           |          |     |    |
|----------------------|----|-------|------|----|-----|------|-----|----|----|---|---|-----|--------|----|---|---|---|---|---|---|-------|-------|-------|---|---|---------------------------------------------------|---------|----|--------|---------|-----|------|-------|-----|---|---------|---------|-------|----|--------|---------|-----|------|------|--------|----------|----------|---------|-----|----------|-------|----------|------|-----------|----------|-----|----|
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Plumage | patte | n  | Method | TRAPPED | IN  | CAGE | TRAP | STATUS | WAS      | RELEASED | ALIVE   | THE | BAND     | WAS   | REPLACED | DU   | E         |          |     |    |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-151 SANDIP PO -34.0068 | 15.1512 | 56 | 329286 | 2363554 | 100 | Band | Recep | Age | P | aged by | Plumage | patte | n  | Method | TRAPPED | BY  | HAND | OR   | WITH   | HANDHELD | NET      | STATUS  | WAS | RELEASED | ALIVE | THE      | BAND | WAS       | REPLACED | DU  | E  |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna | Aves | La | dac | 2341 | Stc | nu | la | o | f | ons | Letter | Te | n | E | 1 | P | J | K | 10709 | ##### | ##### | 4 | T | Val d and accepted v ABHBS-013 TOWRA PO -34.0515  | 15.1512 | 56 | 329283 | 2362429 | 100 | Band | Recep | Age | P | aged by | Known   | age   | at | band   | re      | cap | tu   | e    | Method | COLOR    | MARKING  | SIGHTED | IN  | F        | ELD   | (BAND    | NO   | INFERRED) | STATUS   | WAS | AL |
| Autst of an ABHBS054 | 17 | Fauna |      |    |     |      |     |    |    |   |   |     |        |    |   |   |   |   |   |   |       |       |       |   |   |                                                   |         |    |        |         |     |      |       |     |   |         |         |       |    |        |         |     |      |      |        |          |          |         |     |          |       |          |      |           |          |     |    |

|                      |     |       |      |    |     |      |      |    |    |   |   |     |        |    |   |   |   |   |   |   |   |       |           |           |       |   |                                         |                                         |          |         |        |         |         |      |      |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|-----|-------|------|----|-----|------|------|----|----|---|---|-----|--------|----|---|---|---|---|---|---|---|-------|-----------|-----------|-------|---|-----------------------------------------|-----------------------------------------|----------|---------|--------|---------|---------|------|------|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | 4     | 0 | Val d and accepted a VABBS-001 TOUWA PO | -34.0151                                | 15.1512  | 56      | 329283 | 6234629 | 100     | Band | Re   | g  | on | R  | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D | (B | A  | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |   |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | 20/1/1999 | 20/1/1999 | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band | Re | g  | on | R | e | c | a | p | t | e | M | e | t | h | o | d | C | O | L | O | R | M | A | R | K | I | N | G | S | I | G | H | T | E | D | I | N | F | I | E | L | D  | (B | A | N | D | N | O | I | N | F | E | R | R | E | D | S | T | A | T | U | S | W | A | S |
| Autst of an ABIB8504 | 117 | Fauna | Aves | La | dac | 2341 | Site | nu | la | u | f | ons | Letter | Te | n | E | J | P | C | J | K | 10769 | #####     | #####     | ##### | 4 | 0                                       | Val d and accepted a VABBS-001 TOUWA PO | -34.0151 | 15.1512 | 56     | 329283  | 6234629 | 100  | Band |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

[illegible]

[illegible]

|                     |     |       |      |    |     |      |     |    |    |    |   |   |   |        |    |   |   |   |   |   |   |   |       |           |           |   |   |     |     |          |   |          |     |      |    |         |         |    |        |        |    |      |      |   |   |   |   |     |   |    |         |       |   |       |   |         |    |      |      |        |     |          |       |      |     |       |
|---------------------|-----|-------|------|----|-----|------|-----|----|----|----|---|---|---|--------|----|---|---|---|---|---|---|---|-------|-----------|-----------|---|---|-----|-----|----------|---|----------|-----|------|----|---------|---------|----|--------|--------|----|------|------|---|---|---|---|-----|---|----|---------|-------|---|-------|---|---------|----|------|------|--------|-----|----------|-------|------|-----|-------|
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age | d | by | Plumage | patte | n | Metho | d | TRAPPED | IN | CAGE | TRAP | STATUS | WAS | RELEASED | ALIVE | WITH | THE | BAND. |
| Aust at an ABIS8054 | 117 | Fauna | Aves | La | dac | 2341 | Ste | nu | la | al | o | r | s | Little | Te | n | e | L | P | C | J | K | 10708 | 9/12/1996 | 9/12/1996 | 4 | T | Val | and | accepted | a | WABIS805 | 801 | TOWA | PO | -0.0151 | 15.1512 | 56 | 329283 | 324629 | 10 | Band | Retu | a | n | a | P | Age |   |    |         |       |   |       |   |         |    |      |      |        |     |          |       |      |     |       |

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|----------------------|-----|-------|------|----|---|------|------|----|----|----|---|-----|--------|----|---|-----|---|---|---|-------|-----------|-----------|---|---|-----|---|-----|----------|---|------------|-------|----|----------|----------|----|--------|---------|-----|------|------|---|-----|---|------|----|---------|--------|---------|----|------|----|------|----------|---|--------|-----|----------|-------|------|-----|-------|
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged | by | Unknown | Method | TRAPPED | BY | HAND | OR | WITH | HANDHELD | N | Status | Was | RELEASED | ALIVE | WITH | THE | BAND. |
| Autst an d ABH885178 | 117 | Fauna | Aves | La | d | 2341 | Stet | nu | la | ab | f | ons | Little | Te | n | ELP | C | J | K | 10769 | 8/12/2004 | 8/12/2004 | 4 | T | Val | d | and | accepted | W | 1ABH885178 | TOWRA | Po | -34.0151 | 151.1512 | 56 | 329283 | 6234629 | 100 | Band | Retu | n | Age | U | aged |    |         |        |         |    |      |    |      |          |   |        |     |          |       |      |     |       |

|                      |     |       |      |            |                                         |                  |       |       |       |       |   |    |   |                                |                                |            |         |       |        |         |         |                            |                         |  |
|----------------------|-----|-------|------|------------|-----------------------------------------|------------------|-------|-------|-------|-------|---|----|---|--------------------------------|--------------------------------|------------|---------|-------|--------|---------|---------|----------------------------|-------------------------|--|
| DP E Data 15/05/2024 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 2     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 324609 | CZ37181 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Data 15/05/2024 | 248 | Fauna | Aves | St g ddae  | 256R N nox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 33.99      | 15.11   | 56    | 324606 | CZ37326 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Data 15/05/2024 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 324609 | CZ37181 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Data 15/05/2024 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 324609 | CZ37181 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Data 15/05/2024 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 33.99      | 15.11   | 56    | 324606 | CZ37326 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Defau-SCS 65688 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | OW |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 324609 | CZ37181 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Defau-SCS 65688 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 32553  | CZ38745 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| DP E Defau-SCS 65688 | 248 | Fauna | Aves | St g ddae  | 256R N rox st emua                      | Power ful OV.P.3 | 10562 | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Locat on Dr                    | 34.304     | 15.11   | 56    | 32553  | CZ38745 | 1       | 5 ght netw Netws in thheld | Locat on Notes w thheld |  |
| Tow P o SRMA00000    | 250 | Fauna | Aves | Tyton dae  | 2572 Tyto novahollandiae                | Masted OV.P.3    | 10620 | ##### | ##### | 1     | 4 | 0  |   | Accepted a C.D.                | Thow P o n                     | -04.011    | 15.16   | 56    | 330089 | CZ35209 | 1       | 4 ght netw Netws in thheld | Locat on Notes w thheld |  |
| D E Data 112572-03   | 500 | Fauna | Aves | Acarnm z d | 1973 Calamianulu p g nosu i ated F.E1,P | 10182            | ##### | ##### | ##### | 1     | 4 | 0  |   | Val d and accepted w tW thheld | Thow P o n                     | -04.011    | 15.16   | 56    | 329104 | CZ36308 | 10000   |                            |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 20144 | ##### | ##### | ##### | 1 | 4  | 0 |                                | Val d and accepted w tW thheld | Thow P o n | -04.011 | 15.16 | 56     | 330089  | CZ35209 | 10000                      |                         |  |
| DP E Data 15/05/2024 | 603 | Fauna | Aves | Mel phag d | 2921 Epth annu a alb o                  | Wh tler on E.V.P | 2014  |       |       |       |   |    |   |                                |                                |            |         |       |        |         |         |                            |                         |  |

|                     |    |       |      |            |                           |                   |      |       |       |    |   |                  |                      |                     |          |          |        |        |                                                                                                                          |    |
|---------------------|----|-------|------|------------|---------------------------|-------------------|------|-------|-------|----|---|------------------|----------------------|---------------------|----------|----------|--------|--------|--------------------------------------------------------------------------------------------------------------------------|----|
| Aust all an ABBSB71 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | T | Val and a ACD,   | ABBS-CFS TORWA Po    | -33.9984            | 151.8485 | 56       | 332328 | 326633 | 100 Band Rg Retu n Age 1 Aged by Unknown Method PROBABLY TRAPPED DEV CE UNKNOWN Status WAS RELEASED ALIVE WITH THE BAND. |    |
| Aust all an ABBSB71 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | T | Val and a ACD,   | ABBS-CFS TORWA Po    | -33.9984            | 151.8485 | 56       | 332328 | 326633 | 100 Band Rg Retu n Age 1 Aged by Unknown Method PROBABLY TRAPPED DEV CE UNKNOWN Status WAS RELEASED ALIVE WITH THE BAND. |    |
| Aust all an ABBSB71 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | T | Val and a ACD,   | ABBS-CFS TORWA Po    | -33.9984            | 151.8485 | 56       | 332328 | 326633 | 100 Band Rg Retu n Age 1 Aged by Unknown Method PROBABLY TRAPPED DEV CE UNKNOWN Status WAS RELEASED ALIVE WITH THE BAND. |    |
| Aust all an ABBSB71 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | T | Val and a ACD,   | ABBS-CFS TORWA Po    | -33.9984            | 151.8485 | 56       | 332328 | 326633 | 100 Band Rg Retu n Age 1 Aged by Unknown Method PROBABLY TRAPPED DEV CE UNKNOWN Status WAS RELEASED ALIVE WITH THE BAND. |    |
| Aust all an ABBSB71 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | T | Val and a ACD,   | ABBS-CFS TORWA Po    | -33.9984            | 151.8485 | 56       | 332328 | 326633 | 100 Band Rg Retu n Age 1 Aged by Unknown Method PROBABLY TRAPPED DEV CE UNKNOWN Status WAS RELEASED ALIVE WITH THE BAND. |    |
| Botany Bay SLA10021 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 4  | 0 | Val and accepted | LXLD00902 Tow a Po n | -34.0077            | 151.4171 | 56       | 328892 | 325446 | 300                                                                                                                      |    |
| Data p o SXOK130K   | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 12 | 4 | Accepted a ACD,  | LXD1303TTPR. On a    | -34.0188            | 151.153  | 56       | 329456 | 326420 | 10 salma sh/mang ove                                                                                                     |    |
| Data p o SXOK130K   | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 12 | 4 | Accepted a ACD,  | LXD1303TTPR. On a    | -34.0188            | 151.153  | 56       | 329456 | 326420 | 10 salma sh/mang ove                                                                                                     |    |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 329654 | 326427                                                                                                                   | 50 |
| D E Data I SEMAM000 | 48 | Fauna | Aves | Mel phag d | 2921 Epith amu a alb f om | Wh tef on ELZ V P | 2014 | ##### | ##### | 3  | 4 | T                | Val and accepted     | WLEMM000 Tow a Po n | -34.0186 | 151.1551 | 56     | 32965  |                                                                                                                          |    |

|                       |            |                     |                                          |   |                           |      |                                             |                   |    |        |         |      |            |                                                                                            |
|-----------------------|------------|---------------------|------------------------------------------|---|---------------------------|------|---------------------------------------------|-------------------|----|--------|---------|------|------------|--------------------------------------------------------------------------------------------|
| W lid fe Re SPG 5428: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 9/09/2011 9/09/2011 | 4 WR | Val d and accepted w LPJG03365 postcode o   | -34.0142 151.1022 | 56 | 324763 | 6234644 | 1223 | Encounte b | oad Co l s on Encounte na ow Co l s on -Othe                                               |
| W lid fe Re SPG 5430: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 8/08/2016 8/08/2016 | 4 WR | Val d and accepted w LPJG03321 Cn           | -34.0438 151.1283 | 56 | 327230 | 6231411 | 50   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5431: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03402 Cn           | -33.9702 151.1469 | 56 | 328797 | 6239060 | 50   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5443: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03401 Un l 13, 7-4 | -33.9692 151.1079 | 56 | 325197 | 6239645 | 30   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5450: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 2/11/2015 2/11/2015 | 4 WR | Val d and accepted w LPJG03405 Ss, Geo ge   | -33.9664 151.1362 | 56 | 327802 | 6240001 | 250  | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5453: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03415 Oppen te 2-  | -33.9599 151.1452 | 56 | 328612 | 6240740 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5453: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03402 Cn           | -33.9604 151.1238 | 56 | 326271 | 6240644 | 30   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5468: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 1/04/2014 1/04/2014 | 4 WR | Val d and accepted w LPJG04002 Rocka, 280-  | -34.0245 151.1813 | 56 | 332711 | 6236144 | 30   | Encounte b | oad Entanglement Encounte na ow Entanglement -Othe                                         |
| W lid fe Re SPG 5475: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 6/11/2016 6/11/2016 | 4 WR | Val d and accepted w LPJG04007 Locat on nc  | -33.9644 151.0913 | 56 | 323648 | 6240465 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5471: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03393 P            | -33.9784 151.1276 | 56 | 325183 | 6238621 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5483: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 4/12/2014 4/12/2014 | 4 WR | Val d and accepted w LPJG03396 Augusta 1    | -33.9738 151.1179 | 56 | 326128 | 6239151 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5483: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03391 A Alexande   | -33.9723 151.0929 | 56 | 323816 | 6239277 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5484: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03402 79 B us      | -33.9564 151.1521 | 56 | 329253 | 6241136 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5489: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 4/02/2015 6/02/2015 | 4 WR | Val d and accepted w LPJG03389 7 P es der   | -33.9634 151.1142 | 56 | 325025 | 6231626 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5489: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 7/06/2014 7/06/2014 | 4 WR | Val d and accepted w LPJG03389 7 P a R oi   | -33.9815 151.1253 | 56 | 326830 | 6238117 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5491: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03313 92 r ngwa    | -34.0497 151.1545 | 56 | 328786 | 6230787 | 30   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5494: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03424 70 Bay L y   | -33.9537 151.14   | 56 | 328130 | 6241424 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5496: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03355 89 Co St     | -34.0181 151.0988 | 56 | 324456 | 6234204 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5498: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03391 88, Hamptr   | -33.9721 151.1224 | 56 | 326540 | 6239349 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5504: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03404 681 K ng G   | -33.9671 151.0953 | 56 | 324024 | 6239880 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Moto Veh cle                                       |
| W lid fe Re SPG 5509: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03398 71 73 B us   | -33.9717 151.091  | 56 | 323824 | 6239342 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Othe                                               |
| W lid fe Re SPG 5512: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03395 55 Sca bo c  | -33.9747 151.1463 | 56 | 328753 | 6239102 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5513: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG0340C 53, Ocean 1  | -33.97 151.1333   | 56 | 327544 | 6239602 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5514: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG0337 53 HATFEL     | -33.9393 151.111  | 56 | 325530 | 6236908 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5517: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03412 65 en f      | -33.9629 151.1408 | 56 | 328405 | 6240408 | 30   | Encounte b | oad St anded/Unsa table env onment Encounte na ow Unsa table env onment                    |
| W lid fe Re SPG 5518: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 7/12/2014 7/12/2014 | 4 WR | Val d and accepted w LPJG0316 64 W Id Rd    | -34.0477 151.1449 | 56 | 328769 | 6231008 | 30   | Encounte b | oad Dependent On Pa ent Taken Into Ca e Encounte na ow Dependent On Pa ent Taken Into Ca e |
| W lid fe Re SPG 5520: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03398 63 Ocean 5   | -33.9714 151.1341 | 56 | 327617 | 6239449 | 30   | Encounte b | oad St anded/Unsa table env onment Encounte na ow Unsa table env onment                    |
| W lid fe Re SPG 5521: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 4/02/2017 6/02/2017 | 4 WR | Val d and accepted w LPJG03392 100          | -33.9702 151.1275 | 56 | 324070 | 6240020 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5523: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 6/08/2016 6/08/2016 | 4 WR | Val d and accepted w LPJG03395 61 Co St     | -34.0152 151.094  | 56 | 324506 | 6234534 | 30   | Encounte b | oad Unknown Encounte na ow Elect out on                                                    |
| W lid fe Re SPG 5525: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03405 61 Botany 1  | -33.9659 151.1148 | 56 | 325825 | 6240025 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5525: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03314 UK mo st     | -34.0494 151.1215 | 56 | 326410 | 6230780 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5521: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 3/03/2017 9/03/2017 | 4 WR | Val d and accepted w LPJG03391 82           | -33.9781 151.1462 | 56 | 327133 | 6239107 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5527: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG033386 clubb c e   | -34.0332 151.1049 | 56 | 325050 | 6232545 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5528: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG033475 Redfe n f   | -34.0256 151.0923 | 56 | 323872 | 6233730 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5534: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 8/02/2014 8/02/2014 | 4 WR | Val d and accepted w LPJG03406 54 M f S c   | -33.9652 151.1206 | 56 | 326358 | 6240135 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5534: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG0331432 The K r    | -34.036 151.1152  | 56 | 326003 | 6232251 | 30   | Encounte b | oad Abandoned/ phared/Need ng Encounte na ow Fall on nest t ee                             |
| W lid fe Re SPG 5536: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03407 41 Ne II     | -33.9647 151.1479 | 56 | 328880 | 6240025 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5536: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 2/04/2014 2/04/2014 | 4 WR | Val d and accepted w LPJG03361 41 Co St     | -34.0132 151.0999 | 56 | 324548 | 6234751 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 554:  | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03389 73           | -33.9936 151.1305 | 56 | 327122 | 6235123 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5548: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03333 postcode o   | -34.0361 151.1032 | 56 | 324984 | 6232223 | 1372 | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5548: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 2/02/2015 2/02/2015 | 4 WR | Val d and accepted w LPJG03321 47 Fo est R  | -34.0431 151.0971 | 56 | 324349 | 6231340 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5548: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03371 746 Russel l | -33.9936 151.14   | 56 | 328205 | 6237000 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5550: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 3/03/2017 9/03/2017 | 4 WR | Val d and accepted w LPJG0331432 The an     | -34.049 151.1109  | 56 | 325003 | 6230797 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5552: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 5/10/2015 5/10/2015 | 4 WR | Val d and accepted w LPJG03428 42 4 yant S  | -33.951 151.1423  | 56 | 328333 | 6241724 | 30   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5553: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG0339C 35 Ca o l s  | -33.98 151.1351   | 56 | 327725 | 6238749 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5554: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03391 34, A Ksa d  | -33.9774 151.1002 | 56 | 324503 | 6238721 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5555: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03372 40 Napoelc   | -34.001 151.1149  | 56 | 327752 | 6236150 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Othe                                               |
| W lid fe Re SPG 5555: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03394 40 Battay J  | -33.9756 151.1332 | 56 | 327540 | 6238975 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5559: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 6/08/2014 6/08/2014 | 4 WR | Val d and accepted w LPJG03334 Chambe       | -34.043 151.1129  | 56 | 326253 | 6234349 | 30   | Encounte b | oad Elect out on Encounte na ow Elect out on                                               |
| W lid fe Re SPG 5561: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 1/03/2015 1/03/2015 | 4 WR | Val d and accepted w LPJG03320 73 The G     | -33.9526 151.1045 | 56 | 325027 | 6241440 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5564: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG0332 275 P de      | -34.0386 151.0928 | 56 | 323945 | 6231294 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5566: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG033427 80 Box      | -34.0242 151.1172 | 56 | 326169 | 6234561 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5568: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 1/03/2015 1/03/2015 | 4 WR | Val d and accepted w LPJG03426 26 Moss e f  | -33.9525 151.1067 | 56 | 325050 | 6241398 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Moto Veh cle                                       |
| W lid fe Re SPG 5570: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03389 73 A Nye e   | -33.9779 151.1074 | 56 | 325169 | 6238678 | 30   | Encounte b | oad Attached Encounte na ow Unknown                                                        |
| W lid fe Re SPG 5570: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03402 5 Cams e     | -33.9632 151.1244 | 56 | 326703 | 6240342 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5570: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03391 24 Ca oll    | -33.9786 151.1357 | 56 | 327780 | 6238653 | 30   | Encounte b | oad Unknown Encounte na ow Entanglement -Othe                                              |
| W lid fe Re SPG 5572: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 1/07/2014 1/07/2014 | 4 WR | Val d and accepted w LPJG03382 32 Battay J  | -33.9675 151.1111 | 56 | 326707 | 6239946 | 30   | Encounte b | oad St anded/Unsa table env onment Encounte na ow Unsa table env onment                    |
| W lid fe Re SPG 5574: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 1/08/2016 1/08/2016 | 4 WR | Val d and accepted w LPJG034131 1 26 30     | -33.963 151.123   | 56 | 327717 | 6240373 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Othe                                               |
| W lid fe Re SPG 5577: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               | 4 WR | Val d and accepted w LPJG03315 31 430 P t   | -34.0485 151.123  | 56 | 326748 | 6230880 | 30   | Encounte b | oad Co l s on Encounte na ow Co l s on -Othe                                               |
| W lid fe Re SPG 5581: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 7/03/2017 7/03/2017 | 4 WR | Val d and accepted w LPJG03334 297 Tia n f  | -34.0357 151.1182 | 56 | 326280 | 6232287 | 30   | Encounte b | oad Unknown Encounte na ow Unknown                                                         |
| W lid fe Re SPG 5582: | 1280 Fauna | Mammal a Pte opod d | 3895 Pte opus pol ocephalu G ey-head V,P | V | 10697 #####               |      |                                             |                   |    |        |         |      |            |                                                                                            |

[illegible]

[illegible]

|                        |      |       |                      |      |                                       |                 |       |           |           |   |    |                                           |                                             |          |          |        |         |         |                                                       |                                                                                                                                                |
|------------------------|------|-------|----------------------|------|---------------------------------------|-----------------|-------|-----------|-----------|---|----|-------------------------------------------|---------------------------------------------|----------|----------|--------|---------|---------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| W lid fe Re SPiG 5878f | 1357 | Fauna | Mammal a Vespe t l o | 3953 | Myotis macopus                        | Southern h.v.p  | 10549 | 1/06/2017 | 1/06/2017 | 4 | WR | Val d and accepted w tLPiG0332CSubu n onh | -34.0351                                    | 151.1268 | 56       | 327077 | 6232373 | 1141    | Encounter b oad Attacked Encounter na ow Attack - Cat |                                                                                                                                                |
| DP E Data ISDMPI038f   | 1361 | Fauna | Mammal a Vespe t l o | 3979 | Scoteanax ueppe l                     | Geate B i v,p   | 10748 | #####     | #####     | 1 | 6  | U                                         | Val d and accepted w tLDMPI011Aust aland    | -34.0315 | 151.1691 | 56     | 330968  | 6232835 | 100                                                   | poss ble                                                                                                                                       |
| Tow a Po n SRMA0209f   | 1361 | Fauna | Mammal a Vespe t l o | 3979 | Scoteanax ueppe l                     | Geate B i v,p   | 10748 | #####     | #####     | 1 | 4  | T                                         | Val d and accepted w tLRMA0609 Tow a Po n   | -34.0092 | 151.164  | 56     | 330453  | 6235306 | 4                                                     | Regene at ng E. bo tyo des w th occas onal t eed w th la ge DBH ar                                                                             |
| DP E Data ISDMPI038f   | 1346 | Fauna | Mammal a M n opte i  | 3999 | M n opte us aust al s                 | L ttle Bent-V,P | 10533 | #####     | #####     | 1 | 4  | U                                         | Val d and accepted w tLDMPI011Aust aland    | -34.0287 | 151.1715 | 56     | 331152  | 6233154 | 100                                                   | def n te                                                                                                                                       |
| Data P o tS0XK1303K    | 3330 | Fauna | Mammal a M n opte i  | 4001 | M n opte us o anae o La ge Bent V,P   |                 | 10534 | #####     | #####     | 1 | 4  | U                                         | Val d and accepted w tLDMX13022Tow a Po n   | -34.0234 | 151.1539 | 56     | 329551  | 6233710 | 5                                                     | Anabat placed on old wooden platfo m to do w th oyste fa m ng. F.                                                                              |
| DP E Data ISADA08025   | 3330 | Fauna | Mammal a M n opte i  | 4001 | M n opte us o anae o La ge Bent V,P   |                 | 10534 | 1/10/2008 | 2/10/2008 | 1 | 4  | U                                         | Val d and accepted w tLAD060022 Ca s Pa k i | -33.9895 | 151.1162 | 56     | 325998  | 6237457 | 10                                                    |                                                                                                                                                |
| W lid fe Re SPiG 5611f | 3330 | Fauna | Mammal a M n opte i  | 4001 | M n opte us o anae o La ge Bent V,P   |                 | 10534 | #####     | #####     | 1 | 4  | WR                                        | Val d and accepted w tLPiG03341198 Sylvan   | -34.0307 | 151.0934 | 56     | 323883  | 6232601 | 30                                                    | Encounter b oad Co l s on Encounter na ow Co l s on - Moto Veh cle                                                                             |
| DP E Defau 29364-HO    | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | K                                         | Val d and accepted w t4217-HO End of um     | -33.9681 | 151.1827 | 56     | 332104  | 6239890 | 1000                                                  | Male 204cm, ORC0107. Autopsy ,O gans sent to AM. ORRCA newsletter Sp ng 19 LGA CODE ADDED                                                      |
| DP E Defau 29365-HO    | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | K                                         | Val d and accepted w t4218-HO Tow a Po n    | -34.0012 | 151.1647 | 56     | 330504  | 6236190 | 1000                                                  | Female 317cm, ORC0115. Stage 3-4 decay. Autopsy. Ca cass bu ed.                                                                                |
| DP E Defau 29370-HO    | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | K                                         | Val d and accepted w t4222-HO Wanda Bee     | -34.0445 | 151.1616 | 56     | 330304  | 6231390 | 1000                                                  | Autopsy. Length 2860mm, ta l w dth 305mm. Stomach was full. Repo ted by S. Bat MAP NUMBER ALTERED FROM 9332                                    |
| DP E Defau SMT01033    | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | M                                         | Val d and accepted w t4070-035 Tow a Po n   | -34.0151 | 151.1492 | 56     | 239104  | 6234630 | 10000                                                 |                                                                                                                                                |
| Elements A SPiG 7494a  | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | K                                         | Val d and accepted w tLPiG0725C Botany Bay  | -33.9681 | 151.1827 | 56     | 332105  | 6239890 | 200                                                   | Event - Catego y Ca cass. An mal Reco d numbe MFH0584 Add t onal Locat on Deta ls "Sydney Botany Bay End of Runway". ORC0107. Autopsy , O gr   |
| Elements A SPiG 7494a  | 1558 | Fauna | Mammal a Dugong da   | 4107 | Dugong dugon                          | Dugong E1,P     | 10909 | #####     | #####     | 1 | 4  | K                                         | Val d and accepted w tLPiG0725C Tow a Po n  | -33.9986 | 151.1643 | 56     | 330466  | 6234477 | 200                                                   | Event - Catego y Ca cass. An mal Reco d numbe MFH0607 Add t onal Locat on Deta ls "Sydney Botany Bay Tow a Po nt". Teeth taken fo age stomac   |
| DP E Defau SRH0305f    | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Accepted a ACD. LRH0305 Iwanda bee          | -34.0418 | 151.1638 | 56     | 330504  | 6231690 | 100                                                   |                                                                                                                                                |
| DP E Defau SSQR0308f   | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | M                                         | Accepted a ACD. LSQR0308f C ow la Be        | -34.0317 | 151.1678 | 56     | 330854  | 6232810 | 10000                                                 |                                                                                                                                                |
| Elements A SPiG 7496f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Val d and accepted w tLPiG0726C Capta n Co  | -34.0078 | 151.1276 | 56     | 327090  | 6235400 | 200                                                   | Event - Catego y Haul Out. An mal Reco d numbe MF00951 Seal was assessed on 20 S.15 by vet Natal e DeSouza. In d scuss on w th Ta onga vet dec |
| Elements A SPiG 7496f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Val d and accepted w tLPiG0726C Ta en Pa H  | -34.0172 | 151.1276 | 56     | 327112  | 6234355 | 658                                                   | Event - Catego y Haul Out. An mal Reco d numbe MF03150 w ID WR392623 Awa t ng n itisopathology Has been seen hauled out on icks at Ta en P     |
| Elements A SPiG 7497f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Val d and accepted w tLPiG07272Ku mell Bea  | -34.0085 | 151.1883 | 56     | 332695  | 6235420 | 500                                                   | Event - Catego y Haul Out. An mal Reco d numbe MF03566 w ID WR649939 Seal lay ng on a d um, has a gash on t. th s the same seal f om 10/11/1   |
| Elements A SPiG 7497f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Val d and accepted w tLPiG07275Tabbaga P    | -34.0195 | 151.1858 | 56     | 332493  | 6234199 | 2472                                                  | Event - Catego y Haul Out. An mal Reco d numbe MF0350242 An adul seal was epo ted to the pa ls off ce w th an entanglement. U                  |
| Elements A SPiG 7497f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | A                                         | Val d and accepted w tLPiG07275Tabbaga P    | -34.0195 | 151.1858 | 56     | 332493  | 6234199 | 2472                                                  | Event - Catego y Haul Out. An mal Reco d numbe MF03723 w ID WR650243 ORRCA adv sed NPWS they could not attend today. Also requested a sa       |
| Elements A SPiG 7497f  | 1543 | Fauna | Mammal a Ota dae     | 4108 | A ctocephalus fo ste                  | New Zealand V,P | 10903 | #####     | #####     | 1 | 4  | M                                         | Val d and accepted w tLPiG07275Tabbaga P    | -34.0195 | 151.1858 | 56     | 332493  | 6234199 | 2472                                                  | Event - Catego y Undete m ned / Othe . An mal Reco d numbe MF03718 w ID WR650252 ORRCA sea ched fo seal but t was not at the locat on          |
| DP E Defau 29660-HO    | 1882 | Fauna | Mammal a Ota dae     | 4110 | A ctocephalus pus Ilus Aust al an V,P |                 | 10904 | #####     | #####     | 1 | 4  | O                                         | Val d and accepted w t1375-HO B griton Be   | -33.9686 | 151.1535 | 56     | 239404  | 6239790 | 1000                                                  | Immatur e.                                                                                                                                     |