

Pacific Highway Upgrade: Woolgoolga to Ballina, Sections 1 and 2

Microbat and Nest box Monitoring –
Operational Phase, (2020-2021)



Sandpiper Ecological

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Cover Photo: Stephens` banded snake (*Hoplocephalus stephensii*) occupying a small parrot box at section 2.

Disclaimer:

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1. Introduction

Woolgoolga to Glenugie (W2G) extends 31 km north of the Sapphire to Woolgoolga Pacific Highway upgrade (S2W), and forms sections 1 and 2 of the Woolgoolga to Ballina (W2B) Pacific highway upgrade. The two sections include:

- Section 1 - Woolgoolga to Halfway Creek (W2HC) extends from the northern limit of the Sapphire to Woolgoolga Pacific Highway upgrade north 14 kilometers to Halfway Creek.
- Section 2 – Includes the Halfway Creek to Glenugie (HC2G) Upgrade and Wells Crossing to Glenugie (WC2G – 2A) upgrade. The combined HC2G and WC2G upgrades extend 12.3 km from the northern end of WC2HC to the southern end of the Glenugie Upgrade at Franklins Road.

1.1 Background

1.1.1 Nest boxes

The Ministerial Conditions of Approval (MCoA) for W2B required the preparation of a Nest Box Management Plan (NBMP) to assist in managing displacement of hollow-dependent fauna (MCoA D6). A NBMP was developed for section 1 (Biosis 2014) and section 2 (Ecosure 2014). An addendum to the section 2 NBMP for the WC2G project was developed by Transport for New South Wales (TfNSW) for the WC2G project (section 2A) and approved in 2019 (TfNSW 2019). The respective NBMPs (sections 1, 2 and 2A) outlined the number of hollow-bearing trees (HBT) and the total number and size characteristics of hollows within the clearing boundary (Biosis, 2014; Ecosure, 2014; Transport 2019). These figures were used to calculate the type and number of nest boxes to be installed to provide supplementary habitat for fauna displaced during clearing. As per NBMP calculations, 171 nest boxes were installed at section 1 between November 2015 and September 2016. In section 2, 249 nest boxes were installed between May 2015 and September 2016 with an additional 3 boxes installed in section 2A in 2019. Fifty-two artificial chainsaw hollows were also installed in section 2A as an alternative option to nest boxes.

The NBMPs also detailed the timing of construction and operational phase nest box monitoring events. As specified in the relevant NBMP, construction monitoring was conducted during 2016-17 in section 1 (Sandpiper, 2017) and section 2 (Ecosure, 2017). Construction surveys at section 1 (Sandpiper, 2017) found:

- Evidence of use of nest boxes ranged from 30.1% to 56.4%;
- 36% of hollow dependent species displaced during clearing were recorded using nest boxes;
- Two threatened species, squirrel glider and brush-tailed phascogale, were recorded using nest boxes;
- No exotic fauna were recorded using nest boxes; and
- Minimal repairs were required.

Section 2 construction monitoring found 30% of boxes showed evidence of use with one box containing a pair of squirrel gliders (Ecosure, 2017). Monitoring of chainsaw hollows was not undertaken during construction, with the first inspections scheduled for spring 2020 and autumn 2021 during the operational phase.

1.1.2 Microbats

During pre-construction surveys threatened microbats (Little bent-winged bat – *Miniopterus australis*, Eastern bent-wing bat *Miniopterus schreibersii* and Large-footed myotis – *Myotis macropus*) were found using drainage structures within the project boundary of sections 1 and 2 (Geolink, 2014). The presence of threatened microbats triggered the requirement for a Project Specific Microbat Management Plan (Geolink, 2014). The Microbat Management Plan (MMP) aimed to reduce the risk of injury/death to microbats during construction works and provide temporary (during construction) and permanent (during operation) habitat adjacent to and within impacted drainage structures. In accordance with the MMP, microbat boxes were installed as temporary habitat at five impacted drainage structures noted as having medium to high value microbat habitat (Geolink, 2014). In addition to bat boxes, habitat design features (i.e. culvert joins >20mm) were installed in drainage structures to provide permanent microbat habitat. Three structures were also monitored as control sites.

Construction phase monitoring conducted in 2015-2016 and 2017 recorded large-footed myotis using boxes attached to the Halfway Creek bridge (Ecosure, 2017; Sandpiper, 2018a). Bent-winged bats (*Miniopterus sp.*) were recorded at two impact sites, including the Bebo arch at Glenugie Creek and an old box culvert located to the north of Glenugie Creek, and at two control sites (box culverts) within the old Halfway Creek section of highway (Ecosure, 2017). Long-eared bats (*Nyctophilus spp.*) were the only genera recorded using bat boxes installed in habitat adjoining impacted culverts (Sandpiper, 2018a). Following construction works, bat boxes from the adjacent habitat not utilised by microbats were moved into impact drainage structures as additional habitat features.

1.2 Scope of works

Sandpiper Ecological Surveys was contracted by Transport for New South Wales (TfNSW) in July 2020 to undertake operational phase monitoring of nest boxes and microbat drainage structures for sections 1 (W2HC) and 2 HC2G /WC2G. The proposed monitoring and maintenance schedule with the relevant management plan is presented in Table 1.

Table 1: Scheduled and completed operational monitoring and maintenance plan for sections 1 and 2, including the number of structures and boxes to be inspected. CS = Chainsaw hollows. NB = Nest boxes. MB =Microbat. NBMP = Nest box management plan. MBMP = Microbat management plan.

| Plan | Section | CS hollows | NB | MB Structures | MB boxes | Completed | Remaining |
|---------------------|---------|------------|-----|---------------|----------|-------------------------|------------------|
| NBMP (Biosis 2014) | 1 | - | 171 | - | - | Operational 2020-2021 ✓ | Operational 2023 |
| NBMP (Ecosure 2014) | 2 | - | 249 | - | - | Operational 2020-2021 ✓ | Operational 2023 |
| NBMP (TfNSW 2019) | 2A | 52 | 3 | - | - | Operational 2020-2021 ✓ | Operational 2023 |
| MBMP (Geolink 2014) | 1 | - | - | 4 | 11 | Operational 2020-2021 ✓ | Operational 2023 |
| MBMP (Geolink 2014) | 2 | - | - | 4 | 19 | Operational 2020-2021 ✓ | Operational 2023 |

The following report presents the first year of operational phase monitoring of nest boxes, microbat roosting structures and chainsaw hollows (Table 1). The report details background information on the installation process, inspection methods and results of the nest box and microbat inspections. Findings are then discussed in the context of the performance measures as specified within the relevant NBMPs (Biosis, 2014; Ecosure, 2014; Transport, 2019) and MBMP (Geolink, 2014) in addition to literature and previous highway monitoring projects.

2. Methods

2.1 Design and installation

2.1.1 Nest boxes

Prior to installation in section 1 the box types proposed were reviewed and issues discussed with TfNSW (formerly Roads and Maritime Services) regarding the allocation of boxes to common planigale (*Planigale maculata*) and eastern pygmy possum (*Cercartetus nanus*). It was agreed that boxes designated for common planigale would target feathertail glider (*Acrobates spp*), *Antechinus spp* and microbats, whilst the eastern pygmy possum boxes would target that species if suitable habitat was present but would otherwise target the aforementioned species. Boxes were installed in section 2 as per the NBMP.

A total of 14 box designs constructed from various materials (plywood, metal, hardwood and cyplas) were installed at section 1 (Table 2). Boxes were installed during four periods, 5-8 May 2015 (prior to clearing), 27 and 28 August 2015 (during clearing), 10 November 2015 (during clearing) and 15, 29 and 30 September 2016 (post clearing). Locations of section 1 nest boxes are shown in Figures 1-3.

Nine nest box designs were installed at section 2 (Table 3). Initial installation occurred during May/June 2015 with the final install (post clearing) occurring in 2016. The final number, type, and dimensions of nest boxes installed is presented in Table 3. Locations of section 2 nest boxes are shown in Figures 3-4.

Table 2: Design specifications of nest boxes installed at section 1 W2HC project.

| Box Type | Inside Measurements (mm) | Chamber Depth (mm) | Entrance Diameter (mm) | Box Material | | | | Total Boxes |
|---|--------------------------|--------------------|------------------------|--------------|-------|----------|--------|-------------|
| | | | | Plywood | Metal | Hardwood | Cyplas | |
| Sugar/squirrel glider | 150 x 250 | 300 | 45 | 22 | 6 | 0 | 0 | 28 |
| Yellow-bellied glider | 250 x 350 | 400 | 80 | 6 | 2 | 0 | 4 | 12 |
| Brush-tail/ring-tail possum | 250 x 200 | 300 | 85 | 6 | 6 | 2 | 0 | 14 |
| Microbat | 20 slot | 400 | 30 hole | 9 | 0 | 0 | 1 | 10 |
| Scansorial small (Antechinus) | 150 x 150 | 200 | 30 | 15 | 4 | 0 | 0 | 19 |
| Scansorial small (Feathertail glider) | 150 x 150 | 200-300 | 30 | 12 | 3 | 0 | 1 | 16 |
| Scansorial small (Eastern pygmy possum) | 150 x 150 | 300 | 30 | 1 | 1 | 0 | 0 | 2 |

| Box Type | Inside Measurements (mm) | Chamber Depth (mm) | Entrance Diameter (mm) | Box Material | | | | Total Boxes |
|--|--------------------------|--------------------|------------------------|--------------|-----------|-----------|----------|-------------|
| | | | | Plywood | Metal | Hardwood | Cyplas | |
| Scansorial large (Brush-tailed phascogale) | 150 x 200 | 300 | 50 | 14 | 8 | 0 | 0 | 22 |
| Quoll | 500 x 500 | 800 | 200 | 4 | 3 | 0 | 0 | 7 |
| Cockatoo | 300 x 400 | 1200 | 200 | 4 | 2 | 0 | 0 | 6 |
| Masked Owl | 250 x 300 | 500 | 100 | 2 | 1 | 0 | 0 | 3 |
| Powerful Owl | 500 x 500 | 800 | 200 | 4 | 1 | 0 | 0 | 5 |
| Lorikeet | 150 x 150 | 350 | 55 | 5 | 3 | 3 | 0 | 11 |
| Treecreeper | 150 x 150 | 350 | 60 | 0 | 2 | 14 | 0 | 16 |
| Total | | | | 103 | 42 | 19 | 6 | 171 |

Table 3: Design specifications of nest boxes at section 2.

| Box Type | Entrance diameter (mm) | Chamber depth (mm) | Inside measurements (mm) | Placement height (m) | |
|---|------------------------|--------------------|--------------------------|----------------------|------------|
| Scansorial mammals (i.e. antechinus, brush-tailed phascogale) | 30-50 | 200-300 | 150 x 200 | 2-6 | 97 |
| Microchiropteran bats (fluttering and direct flying species) | Horizontal slot 20 | 400 | 200 x 200 | 3-5 | 7 |
| Small gliders (i.e. sugar glider) | 30-45 | 300 | 150 x 250 | 3-6 | 23 |
| Larger gliders (i.e. yellow-bellied glider, greater glider) | 90 | 400 | 250 x 250 | 6-10 | 5 |
| Small parrots (i.e. Eastern Rosella) | 55-100 | 400 | 200 x 200 | 5-8 | 36 |
| Possums (brush-tails and ringtails) | 85 – 100 | 300 | 250 x 250 | 2-4 | 22 |
| Small owls (boobook owl, barn owl) | 100 | 500 | 250 x 300 | 4-6 | 25 |
| Large parrots (king parrot) | 200 | 1200 | 300 x 400 | 8-10 | 25 |
| Large owls (i.e. powerful owl) | 200 | 800 | 550 x 550 | 12-20 | 12 |
| Total | | | | | 252 |



Figure 1: Location of section 1 W2HC nest boxes (southern).

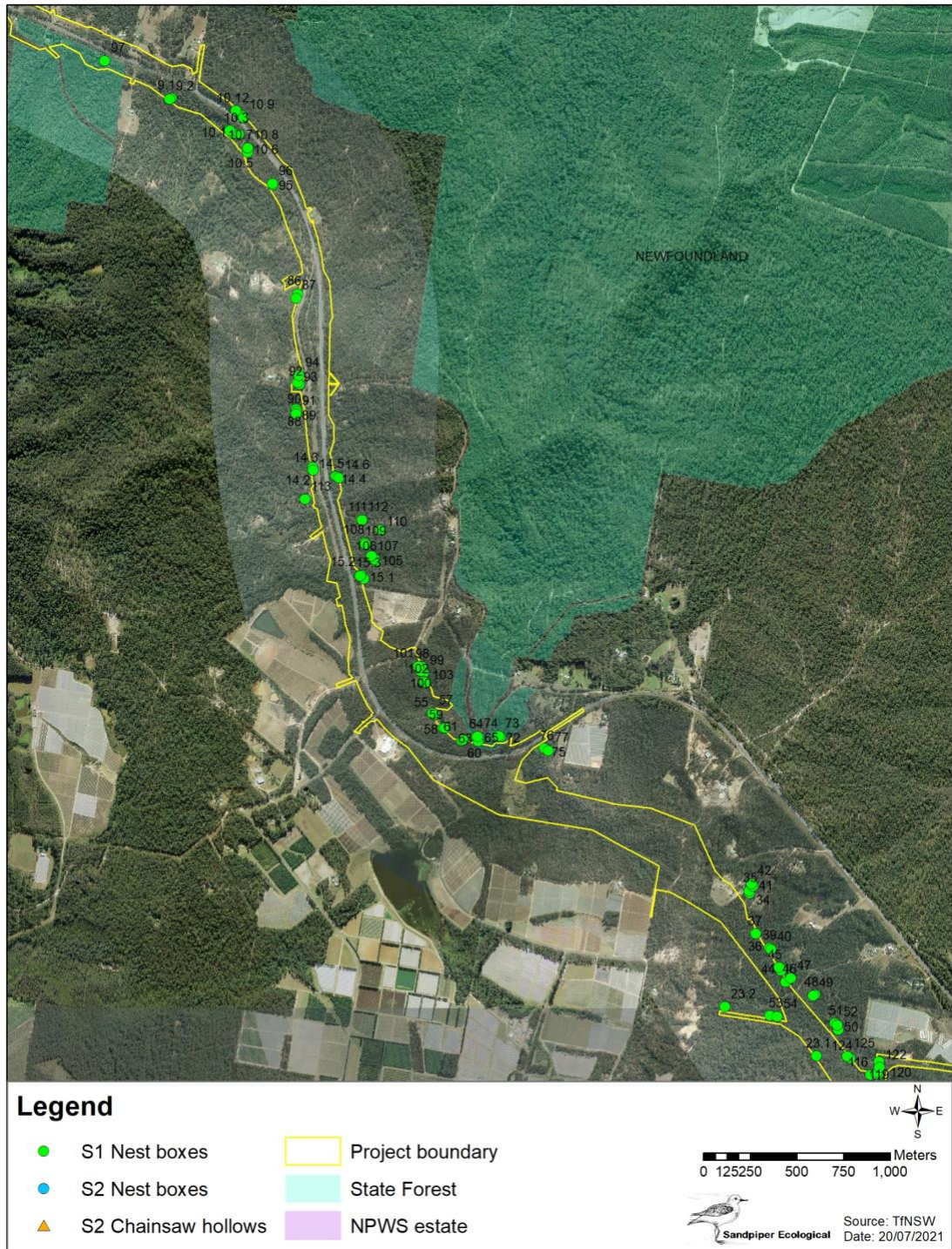


Figure 2: Location of section 1 W2HC nest boxes (middle).

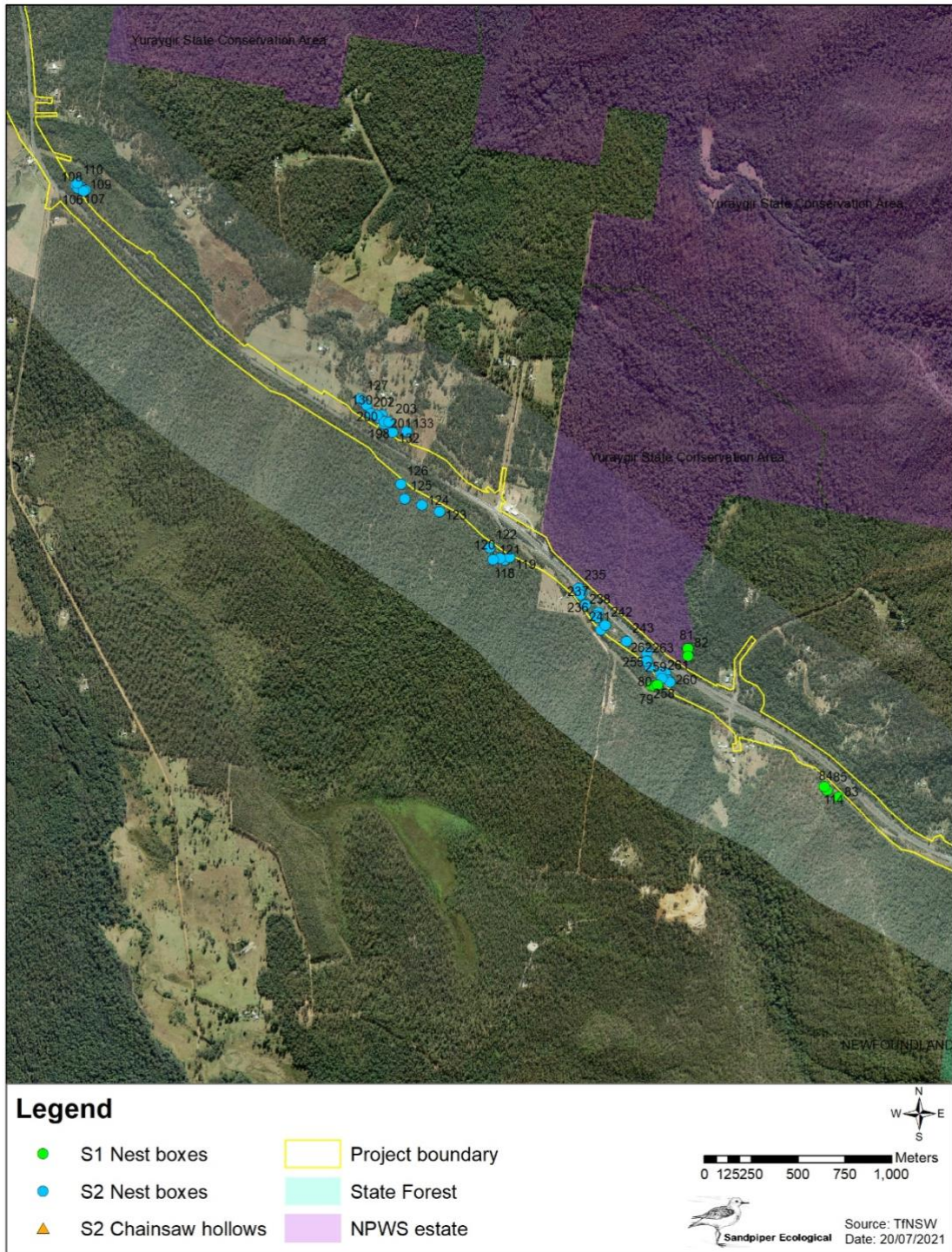


Figure 3: Northernmost section 1 nest boxes and beginning of section 2 HC2G nest boxes.

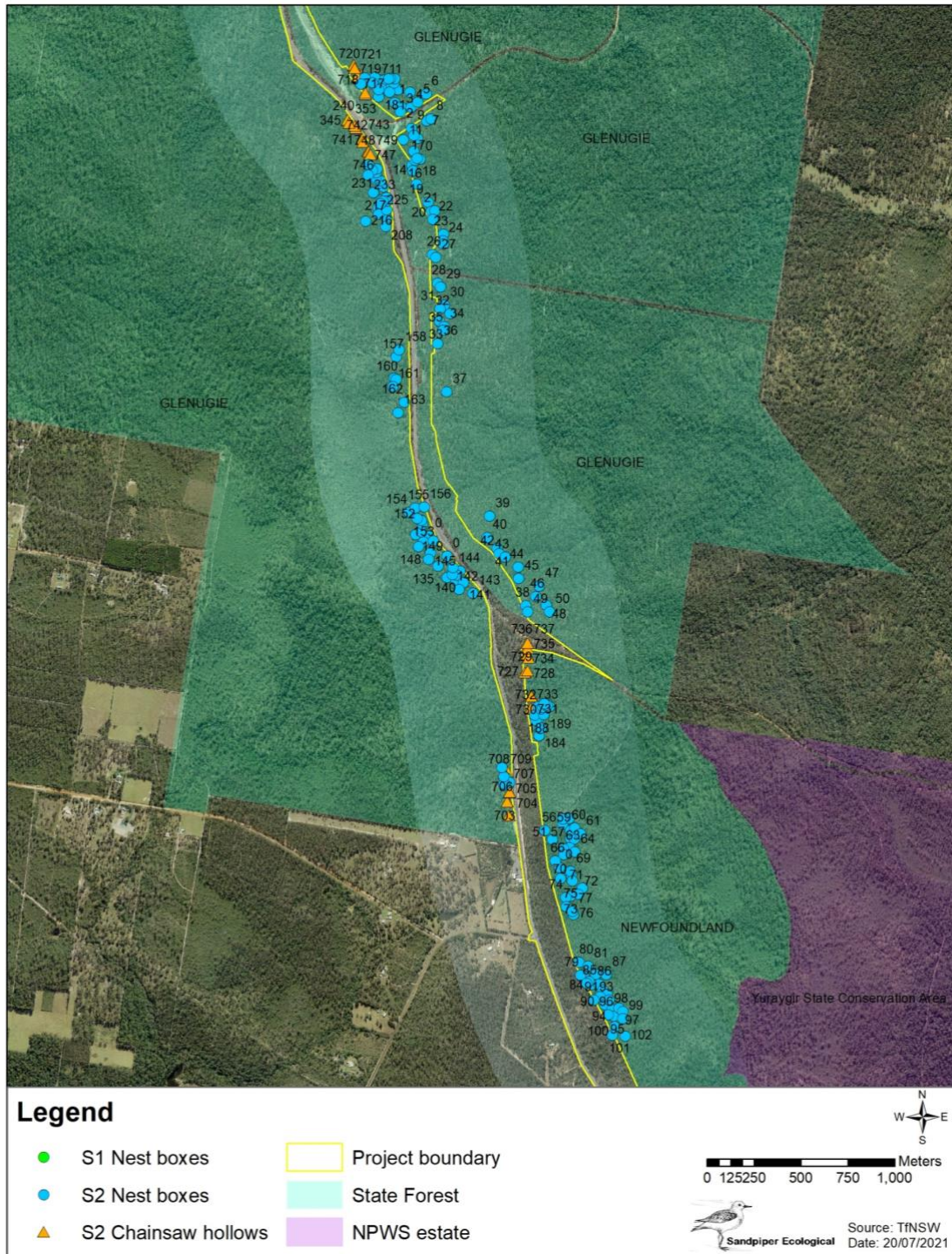


Figure 4: Section 2 HC2G and 2A WC2G nest boxes and chainsaw hollow locations (northern extent).

2.1.2 Chainsaw hollows

Four chainsaw hollow designs were installed at WC2G (section 2) during August 2019 (Table 4). Suitable host trees had a minimum diameter at breast height (DBH) of 400mm and a total tree height of 15-25m. Table 4 details the type of chainsaw hollows, dimensions and number installed. Figure 4 shows the location of installed chainsaw hollows.

Table 4: Artificial hollow specifications as per Eco Logical Australia installation W2B Section 2 (Eco Logical 2020).

| Hollow types | Entrance diameter (mm) | Faceplate position | Inside measurements H x W X D (mm) |
|---|------------------------------|--------------------|------------------------------------|
| Small arboreal mammal (i.e. feathertail, antechinus) | 25 | Top | 300 x (90-100) x (120-200) |
| Medium sized arboreal mammal (squirrel glider, sugar glider, brush-tailed phascogale) | 45 | Top | 450 x (150-200) x (150-200) |
| Microbat small entrance | Rectangular 12 x (50-150) | Bottom | 300-500 H |
| Microbat large entrance | Rectangular 20 x (50-150) | Bottom | 300-500 H |

2.1.3 Bat boxes and structures

During construction, 28 nest boxes were installed in habitat adjoining four structures, 12 at Glenugie Creek, five at Halfway Creek, two at north Boney's Creek and nine at Boney's Creek (Table 5; Sandpiper, 2017; 2018a). Ten boxes were installed within structures, including two plywood boxes beneath the Halfway Creek bridge, and eight hebel boxes within the four-cell Halfway Creek culvert. Eight structures were monitored during the construction phase, four each in sections 1 and 2 (Table 5). Structure numbers 66 and 67 were situated in the original Halfway Creek upgrade (i.e. old Pacific Highway) and are classed as reference sites, where no construction work occurred.

The intent of boxes installed in adjacent habitat was to provide supplementary roosts whilst culverts were being constructed. Upon completion of construction, eight boxes were moved from adjacent habitat into the Boney's Creek culvert, and two boxes were moved from adjacent habitat into the Boney's Creek north culvert (Table 5). Boxes in adjacent habitat at Halfway Creek and Glenugie Creek remain in-situ, except five boxes at Glenugie Creek which were removed during clearing for section 2A. Locations of culvert monitoring sites are shown in Figures 5 to 7.

Table 5: Specifications of microbat drainage structures monitored at sections 1 and 2. * = reference site.

| Section | Chainage | Structure No. | Site Name | Structure type | No. of cells | Width (mm) | Height (mm) | No. boxes | Roughened concrete |
|---------|----------|---------------|------------------|-------------------------|--------------|------------|-------------|---------------------------------|--------------------|
| 1 | 13310 | 46 | Boney's Creek | Box culvert & adj boxes | 2 | 3000 | 3000 | 9 adj hab – 8 moved internal | Yes |
| 1 | 13850 | 49 | Nth Boney's | Box culvert | 1 | 2400 | 2100 | 2 adj hab – both moved internal | Yes |
| 1 | 15950 | 66* | Grays Rd | Box culvert | 3 | 3300 | 2400 | 0 | Yes |
| 1 | 16000 | 67* | Grays Road nth | Box culvert | 1 | 1200 | 1200 | 0 | No |
| 2 | 20665 | 25 | H'way Ck culvert | Box culvert | 4 | 3000 | 2400 | 5 adj hab 8 internal | Yes |

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| Section | Chainage | Structure No. | Site Name | Structure type | No. of cells | Width (mm) | Height (mm) | No. boxes | Roughened concrete |
|---------|----------|---------------|-----------------|------------------------------------|--------------|------------|-------------|------------|--------------------|
| 2 | 21000 | 25.1 | H'way Ck bridge | Boxes beneath bridge | N/A | | | 2 internal | No |
| 2 | 29360 | 32 | Glenugie Ck | Bebo arch & boxes (east side only) | 1 | 9000 | 3000 | 12 adj hab | No |
| 2 | 30160 | 40* | Old highway | Box culvert | 2 | 2400 | 2400 | 0 | Yes |

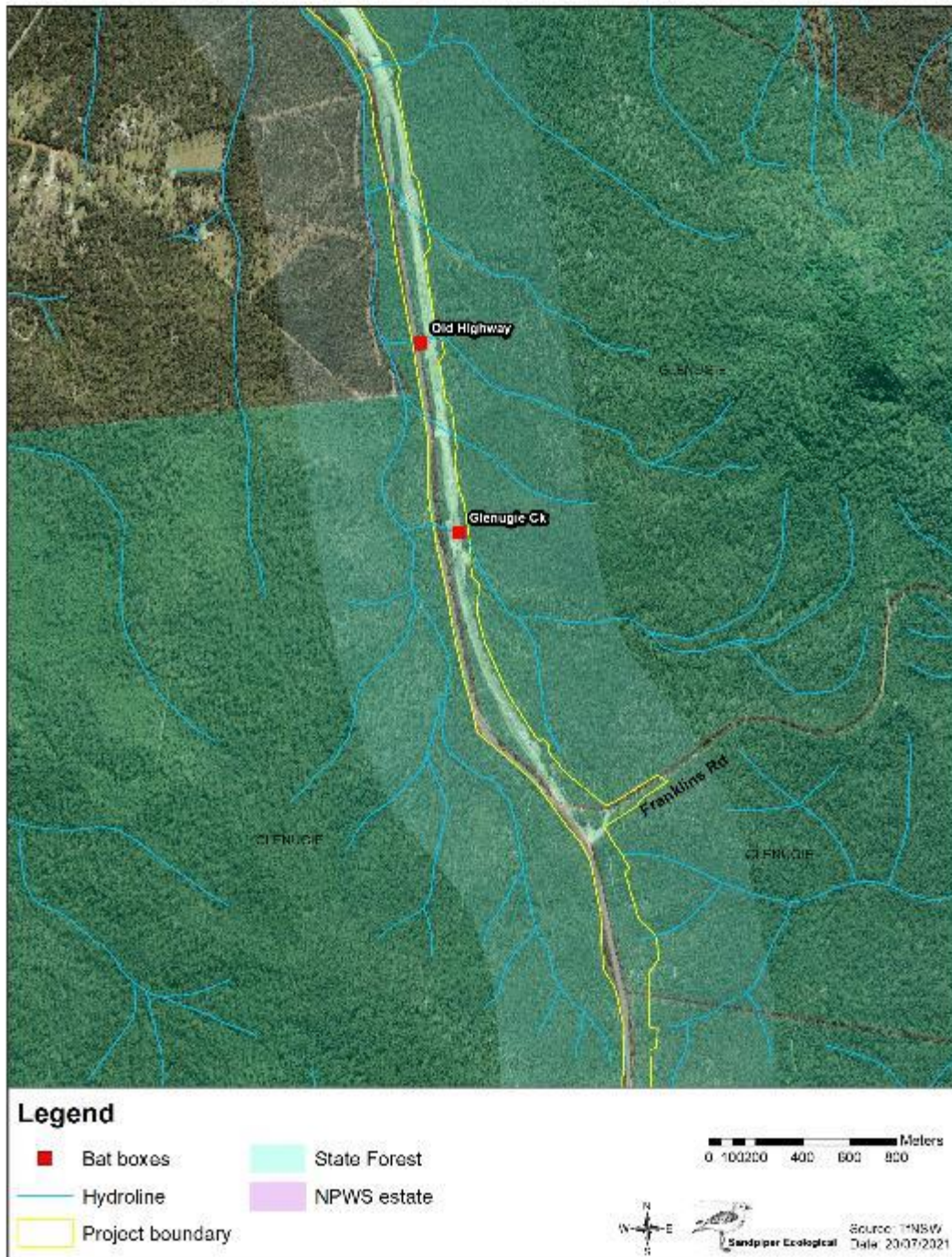


Figure 5: Locations of microbat monitoring structures at section 2 HC2G (northern extent).

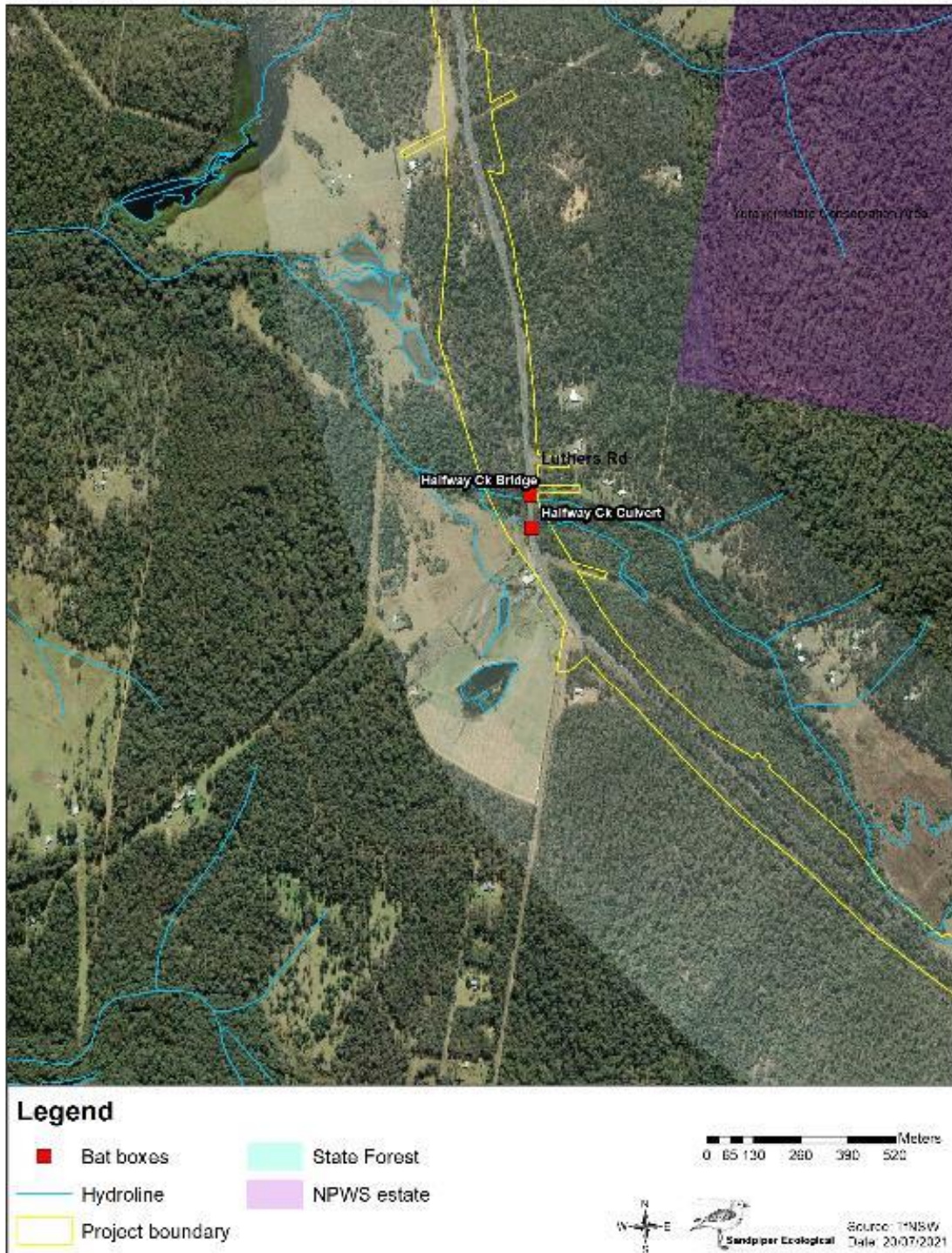


Figure 6: Locations of microbat monitoring structures at section 2 HC2G (southern extent).

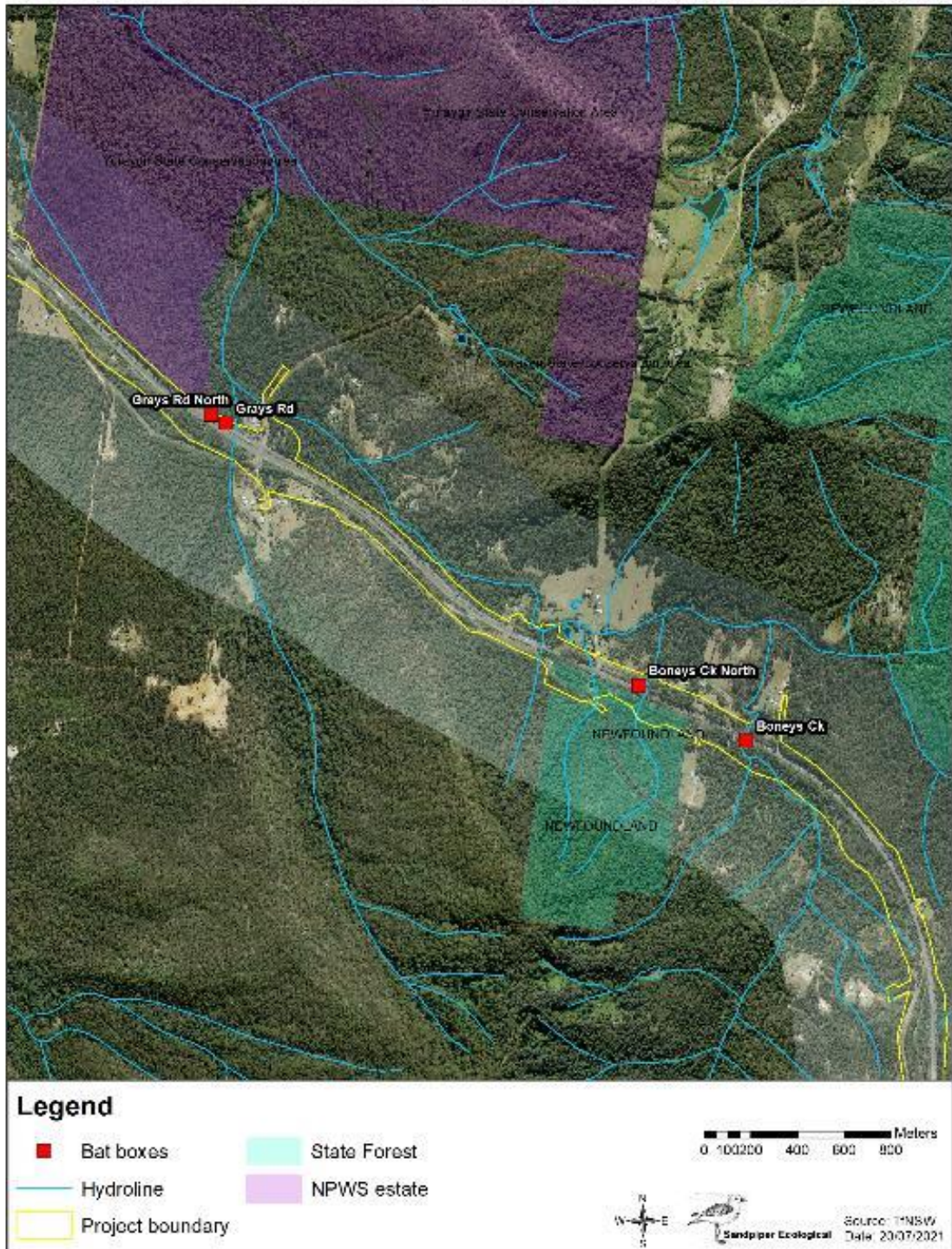


Figure 7: Locations of microbat monitoring structures at section 1 W2HC.

2.2 Nest box inspections

Sections 1 and 2 nest boxes were inspected between 9 and 30 November 2020 (spring) and 20 and 29 April 2021 (autumn) with climber boxes for the autumn survey inspected on 24-25 June 2021. During inspections nest box designs recorded in the field were checked against those recorded on the datasheet. Any discrepancies were changed. Boxes were located using a hand-held GPS and grid references supplied by TFNSW. Nest boxes were inspected using a telescopic pole with a GoPro Hero7

and Knog light unit attached. The GoPro was linked wirelessly to an iPad where an ecologist viewed the contents of each box. The lid of each box was carefully lifted, the interior photographed, and essential data recorded using a standard data sheet. Tree climbers inspected and photographed boxes higher than ten meters. Data recorded during all inspections included; weather conditions (i.e., rain, wind, cloud cover, ambient temperature), time and date of inspection, vertebrate fauna present, approximate age and number of fauna present, sex of fauna present (if discernible), fauna signs such as leaf nests, scats, wear or scratch marks, box condition, wire condition, and comments on any changes in the surrounding habitat.

Box use was determined by direct observation of fauna (i.e. occupied) or indirectly by nest characteristics and scats (i.e. evidence of use). Nests were assigned an accuracy score, which included possible (50-75% certain), probable (75-95% certain), or definite (>95%). Box condition was allocated one of three ratings: Fair (nil or very little deterioration), minor- moderate damage (hinge deterioration, box delaminating, lid fallen off, wire or spring rusting), severe damage (Non-functional i.e., box fallen, termite infestation, or burnt). Evidence of feral animal occupation such as European bees (*Apis mellifera*) was also recorded. Native beehives (*Austroplebeia* and/or *Tetragonula* spp.) were recorded in the fauna column of the datasheet.

Identification of fauna and fauna signs was based on the ecologist's experience, with reference to standard field guides (e.g. Menkhurst & Knight 2004; Churchill 2008; Tyler & Knight 2009; Triggs 1996) as required. Colleagues were consulted to identify some nests.

2.3 Chainsaw hollow inspections

Chainsaw hollows were inspected on 26 November 2020 and 3 May 2021. Hollows (n=52) were accessed via ladder and cavities inspected by an ecologist using a (Rigid) borescope. Upon inspection of the hollows, any species or evidence of use (i.e. scats, leaf nests etc) was recorded. Epicormic growth obstructing entries of the chainsaw hollows were removed during the inspection.

2.4 Bat box and structure inspections

An ecologist inspected 20 bat boxes and four culverts on 10 November 2020 (spring) and 18 May 2021 (autumn). A combination of spotlight and binoculars were used to inspect boxes, culvert joints, lift points, obverts and roughened overhangs. To avoid disturbing bats, individuals were not removed from boxes or joints unless there was concern about identification or breeding status. Data recorded at each site included: species present, number of individuals, evidence of breeding, evidence of bat use (guano and scuff marks), pest species, box condition and the amount of available roosting habitat (i.e. count of suitable joints and roughened surfaces).

2.4 Maintenance

Nest boxes that had moderate or severe deterioration were assessed to determine the best ameliorative approach. Maintenance was undertaken on 5 and 6 July 2021 with several boxes replaced in section 1 and 2 due to bush fires and damage from wire/spring failure. Replacement Cyplas boxes were reinstalled via ladder with an ecologist present. Other repairs accessible via ladder were also undertaken such as wire replacement, lid reattachment and box reinstallation.

2.5 Data summary and analysis

Nest box data for sections 1 and 2 have been summarised separately. Nest boxes considered to be used by fauna (evidence of use) contained either nests/dens (new or old), scats, remains or chew markings. Occupied boxes were recorded when fauna was directly observed within or leaving a nest box. Vacant boxes displayed no visual signs of use (as above) and were not occupied by fauna during inspection.

To assess whether species use of nest boxes was consistent with the species targeted by the nest box design, data for each section was pooled across both sample periods (spring + autumn inspections). Nest box designs in section 1 were highly specific, often targeting individual species (i.e. Masked owl and Powerful owl) despite having similar entry sizes and inner dimensions. To account for these similarities in design, section 1 boxes were reassigned into the following groups according to entry size: CO= Cockatoo/Owl (masked owl, powerful owl and cockatoo boxes), LG=Large Glider (YbG boxes), MB=Microbat, Po=Possum, Qu = Quoll, SM=Scansorial mammal (Antechinus/brush-tail phascogale/eastern pygmy possum), SG= small Glider (squirrel and sugar glider), L/T=Lorikeet/treecreeper (lorikeet and treecreeper) and FTG= feathertail glider. Box types at section 2 were not reassigned.

3. Results

3.1 Nest boxes

3.1.1 Occupancy and evidence of use rates

In section 1, the number of boxes occupied by vertebrate fauna remained consistent, ranging from 12 (7%) in spring to 15 (8.7%) in autumn (Figure 8). Section 2 nest boxes exhibited similar occupancy with 24 (9.5%) and 20 (8%) boxes occupied in spring 2020 and autumn 2021 (Figure 8). Occupancy of boxes by invertebrates was low, ranging from four (section 2 spring 2020) to seven nest boxes (section 1 autumn 2021) (Figure 8). Active ant nests accounted for the majority of invertebrate occupancy with a single record of an active European beehive in section 2 during spring (Table 6).

Evidence of use rates in section 1 were slightly higher than those of section 2 (Figure 8). In section 1, evidence of use exceeded 50% during both inspections, with 55% (95 boxes) recorded during spring and 56.7% (97 boxes) in autumn (Figure 8)., Section 2 recorded evidence of use at 49.6% (125 in total) of boxes in spring and 48.8 % (123 in total) in autumn (Figure 8). Vacancy rate was lower in section 1, ranging from 26.9% (46 boxes) in spring to 23.8% (41 boxes) in autumn (Figure 8). Whereas in section 2, 37.6% (95 boxes) and 35.7% (90 boxes) of nest boxes were recorded as vacant during spring and autumn, respectively (Figure 8). Notably, in both sections, the number of vacant boxes decreased between spring 2020 and autumn 2021 (Figure 8).

Twelve nest boxes were not inspected during either sample at section 1 (Figure 8) due to denied private property access (3 boxes), burnt during bushfires (7), wire failure/box on ground (2) (see Appendix A, Table A1). Also, thirteen boxes in section 2 were not inspected during spring 2021 due to wire failure (1), burnt (9) and missing (3) (see Appendix B, Table B1).

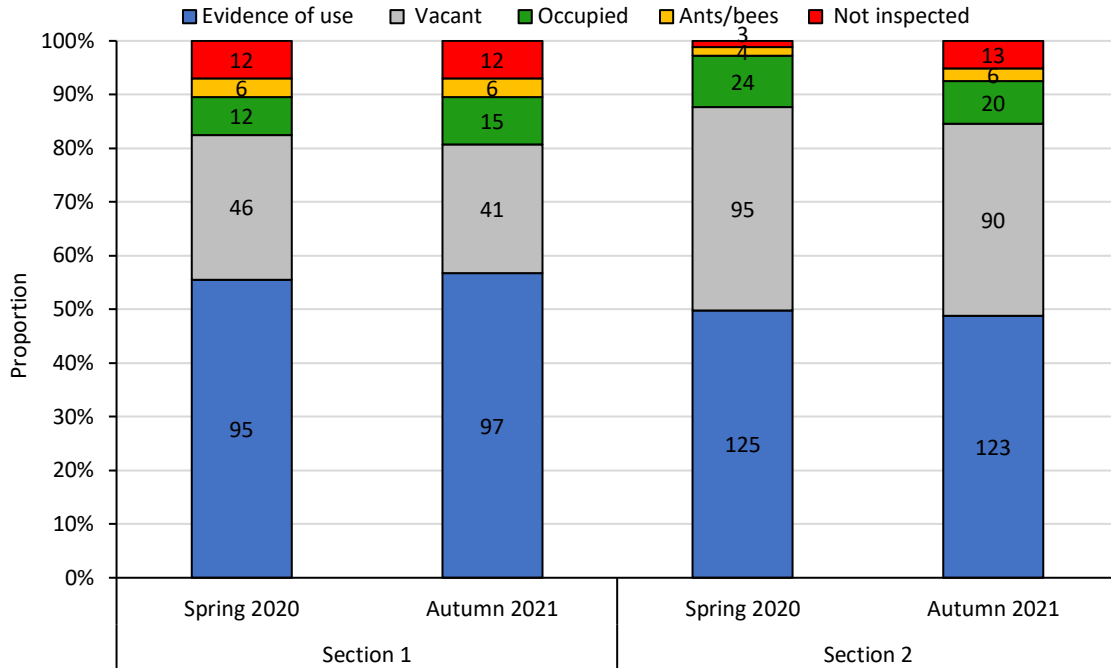


Figure 8: Number and proportion (%) of boxes used by vertebrate fauna (occupied or evidence of use), invertebrates (grouped ants and European bees), unused (vacant) and boxes not inspected (due to restricted access, damage or missing) during operational phase monitoring (spring and autumn) at W2HC (Section 1) and HC2G/WC2G (Section 2), 2020-2021.

Eleven species and four genera of vertebrate fauna were recorded using nest boxes in sections 1 and 2 (Table 6). Arboreal mammals were the most prevalent (evidence of use and occupied) fauna group in both sections (Table 6). Of the mammals recorded, small *Petaurus spp.* (i.e., sugar glider – *P. breviceps* or squirrel glider – *P. norfolcensis*) were the most frequently recorded group during spring and autumn in both sections (Table 6, Plate 1). Other mammals recorded included *Trichosurus spp.* (i.e. combined short-eared brushtail possum – *T. caninus*, and common brushtail possum – *T. vulpecula*), *Antechinus spp.*, *Acrobates spp.*, brush-tailed phascogale (*Phascogale tapoatafa*), yellow-bellied glider (*Petaurus australis*), microbat spp. and rodent spp. (Table 6, Plate 1). Records of *Trichosurus spp.* were higher in section 2 while *Acrobates spp.* were more frequently recorded in section 1 (Table 6, Plate 1).

Table 6: The number of nest boxes occupied or displaying evidence of use by species and fauna groups during autumn and spring operational monitoring at sections 1 and 2, 2020-2021. Fauna in bold denote threatened species. Old leaf nests were characterised by lack of structure and decaying leaf material. * Probable records based on den material present.

| Species | Section 1 | | | | Section 2 | | | |
|--------------------------------|-----------------|--------|----------|--------|-----------------|--------|----------|--------|
| | Evidence of use | | Occupied | | Evidence of use | | Occupied | |
| | Spring | Autumn | Spring | Autumn | Spring | Autumn | Spring | Autumn |
| Mammals | | | | | | | | |
| <i>Antechinus spp.</i> | 18 | 23 | | 2 | 18 | 27 | | |
| Brush-tailed phascogale | | 1* | | | 9* | 6* | | |
| Sugar glider | | | | 5 | | | 1 | |
| Squirrel glider | | | 5 | 4 | | | 2 | 2 |
| Yellow-bellied glider | | | | | | 1 | 1 | 1 |
| <i>Small Petaurid spp.</i> | 42 | 36 | 2 | 2 | 48 | 36 | | 1 |
| <i>Acrobates spp.</i> | 15 | 14 | | | 4 | 7 | | |
| Common brushtail possum | | | 2 | 2 | | | 12 | 8 |
| <i>Trichosurus spp.</i> | 11 | 10 | 1 | | 23 | 25 | | |
| Microbat spp. | | | | | 1 | 1 | | |

| Species | Section 1 | | | | Section 2 | | | |
|--------------------------------------|-----------------|--------|----------|--------|-----------------|--------|----------|--------|
| | Evidence of use | | Occupied | | Evidence of use | | Occupied | |
| | Spring | Autumn | Spring | Autumn | Spring | Autumn | Spring | Autumn |
| <i>Rodent spp.</i> | | | | | | 1 | | |
| Reptiles | | | | | | | | |
| Stephens' banded snake | | | | | | | 1 | |
| Lace monitor | | | | | | | 1 | 6 |
| Birds | | | | | | | | |
| Australian owlet nightjar | | | 1 | | 1 | 7 | 6 | 1 |
| White-throated treecreeper | | | | | 1* | 1* | | |
| Treecreeper spp. | 2 | 1 | | | 2 | 2 | | |
| Scaly-breasted lorikeet | | | 1 | | | | | |
| <i>Trichoglossus</i> spp. (lorikeet) | | 1 | | | | | | |
| Bird spp. | | | | | 3 | | | |
| Frogs | | | | | | | | |
| <i>Litoria peronii</i> | | | | | | | | 1 |
| Invertebrates | | | | | | | | |
| Ants | | | 6 | 6 | | | 3 | 6 |
| European bees | | | | | | | 1 | |
| Other | | | | | | | | |
| Old leaf ^A | 7 | 9 | | | 13 | 8 | | |

Birds were the next most abundant fauna group (Table 6). Australian owlet nightjar (*Aegotheles cristatus*) and treecreeper spp. were recorded in both sections (Table 6). White-throated treecreeper (*Cormobates leucophaea*) was recorded in section 2 and scaly-breasted lorikeet (*Trichoglossus chlorolepidotus*) and lorikeet spp. in section 1 (Table 6). No owls or cockatoo species were recorded using nest boxes.

Other vertebrate fauna groups recorded were reptiles (two species) and frog (one species) at section 2 (Table 6). Lace Monitor (*Varanus varius*) was recorded on seven occasions while Stephens' banded snake and Peron's tree frog (*Litoria peronii*) were each recorded in one box only (Table 6).

Notably, four threatened species were recorded, including squirrel glider, yellow-bellied glider, brush-tailed phascogale and Stephens' banded snake (Table 6). Squirrel glider (see plate 1) were recorded occupying five and four nest boxes in spring and autumn respectively in section 1 and two boxes during spring and autumn in section 2 (Table 6). An adult and juvenile yellow-bellied glider were recorded using a plywood large parrot box in spring 2020 (remnant leaf nest remained during autumn inspection) and an aluminum large parrot box in autumn 2021 (Table 6, Appendix B, Table B1 and B2). Probable evidence of use by brush-tailed phascogale (indicated by scat deposits amongst shredded bark see plate 1) was recorded in a nest box in section 1 during autumn 2021 and nine and six nest boxes in spring and autumn respectively in section 2 (Table 6). A Stephens' banded snake was recorded using a small parrot box in section 2 during spring 2020 (Table 6).



Plate 1: Fauna recorded during the spring 2020 and autumn 2021 nest box inspections. (a) Scaly-breasted lorikeet chicks, (b) Typical small petaurid (sugar or squirrel glider) leaf nest, (c) Squirrel gliders (n=2) in a small glider box in section 2, (d) Stephens' banded snake recorded in a parrot/lorikeet box in section 2, (e) scat and shredded bark in a scansorial box indicating a probable brush-tailed phascogale record, and (f) two yellow-bellied gliders using a plywood large parrot box in section 2.

3.1.2 Nest box designs and target species

Across spring 2020 and autumn 2021 inspections at section 1, five (55.5%) of the nine nest box types recorded use by the target species/groups (Figure 9). Small glider (SG) boxes recorded the highest use by a target species with 46.5% of the total SG boxes inspected (i.e. 58 boxes) showing evidence of use or occupancy by small gliders (sugar glider or squirrel; Figure 9). Feathertail glider boxes (FTG) recorded usage of 34.3% of boxes by target species (*Acrobates* spp) (Figure 9). Possum (Po) boxes recorded 28.5% usage by possums (short-eared brushtail possum, common brushtail possum, common ringtail possum and *Trichosurus* spp.; Figure 9). Other targeted fauna included *Antechinus* spp in 23.7% of scansorial fauna (SM) boxes, *Trichoglossus* spp and treecreeper spp. recorded evidence of use in 1.8% of Lorikeet/treecreeper (L/T) boxes. No use by target species was recorded in the cockatoo/owl, large glider, microbat or quoll boxes in section 1. Several species were recorded in non-design specific box types (Figure 9). Small gliders were the most widespread and were recorded using all box types except quoll and microbat with a preference for boxes with smaller entrance diameters and internal dimensions (e.g. SG, L/T, FTG and SM) (Figure 9). Scansorial fauna (*Antechinus* spp.) were predominantly recorded in smaller entrance diameter designs, although they also used large glider and possum boxes (Figure 9). Possums were recorded in four box types, all with larger entrance holes (Figure 9). Among the bird species, Australian owlet-nightjars (“lorikeet/bird” category in Figure 9) were detected in SG and CO while lorikeet spp and scaly-breasted lorikeets were recorded in the SG design (Plate 1; Figure 9). A probable brush-tailed phascogale nest was found in a large glider box (Figure 9). Non-target arboreal ants were detected in four of the nine box designs all of which had small diameter entrances (Figure 9). Higher vacancy rates were evident in MB, Qu, Po, LG and CO boxes in comparison to smaller entry sized boxes SG, L/T, FTG and SM (Figure 9).

Similarly, in section 2 five (55.5%) of the nine nest box types recorded use by the target species/groups (Figure 10). Small glider (SG) closely followed by scansorial mammal boxes (SM) recorded the highest use by target species with 23.9% (records of either feathertail, sugar or squirrel glider) and 23.7% (*Antechinus* spp. or brush-tailed phascogale records) respectively (Figure 10). Other box types used by targeted fauna included microbat with microbat scat under 14.3% of boxes, possum boxes recorded 13.6 % usage by possums (short-eared brushtail possum, common brushtail possum and *Trichosurus* spp.) while 6% of small parrot boxes (bird boxes) were used by Australian owlet nightjar (Figure 10). No use by target species was recorded in the large glider, large owl, large parrot and small owl boxes. Large gliders (yellow-bellied gliders) were recorded using large parrot boxes, while the remaining target species (large parrots, small and large owls) were not recorded.

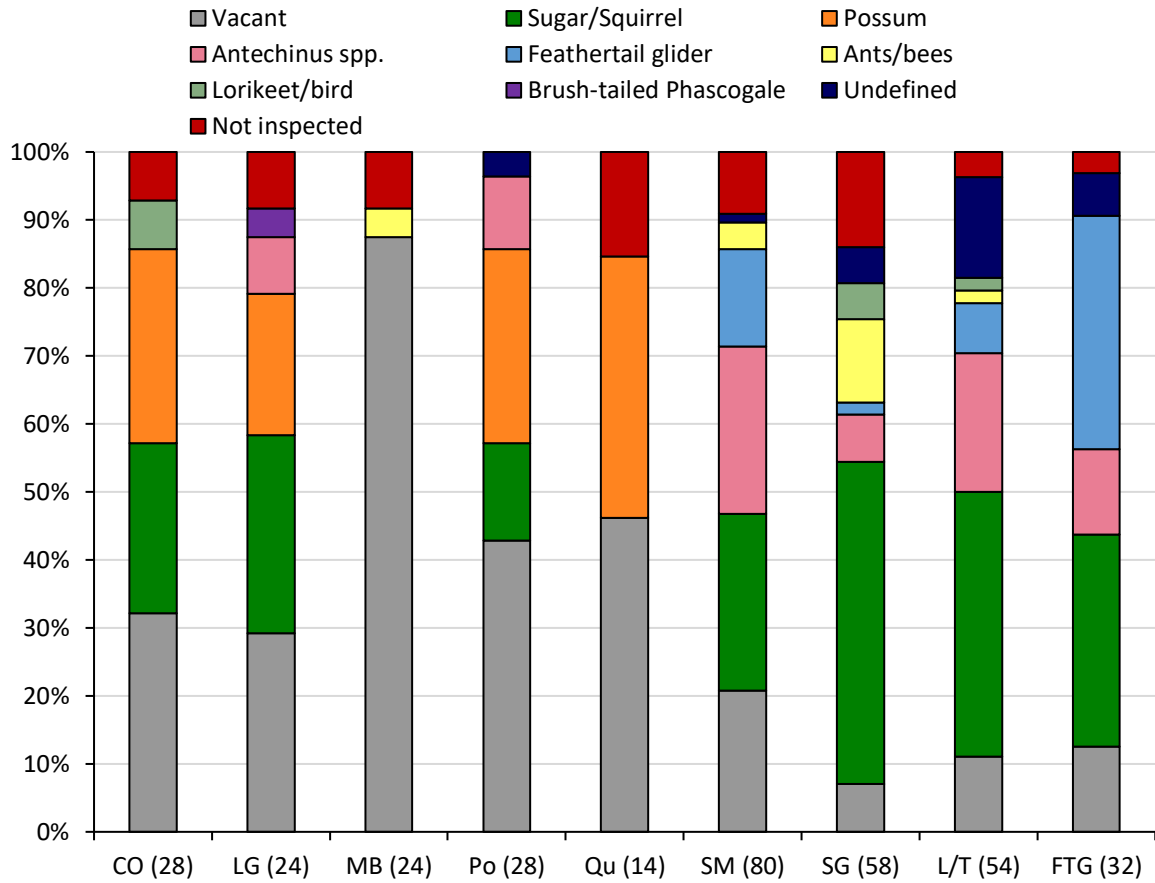


Figure 9: Fauna recorded using design-specific box types during nest box monitoring (2020-2021) at HC2G (section 1 only). Numbers in parenthesis indicate the total number of boxes inspected over the two sample periods. Fourteen nest box types were used at HC2G. For simplicity, nest boxes types have been grouped into the following according to entry sizes: CO= Cockatoo/Owl (masked owl, powerful owl and cockatoo), LG=Large Glider (YbG), MB=Microbat, Po=Possum, Qu = Quoll, SM=Scansorial mammal (Antechinus/Brush-tail phascogale/eastern pygmy possum), SG= small Glider (squirrel and sugar glider), L/T=Lorikeet/treecreeper (lorikeet and treecreeper) and FTG= feathertail glider. Undefined = remnant nest material or chew markings.

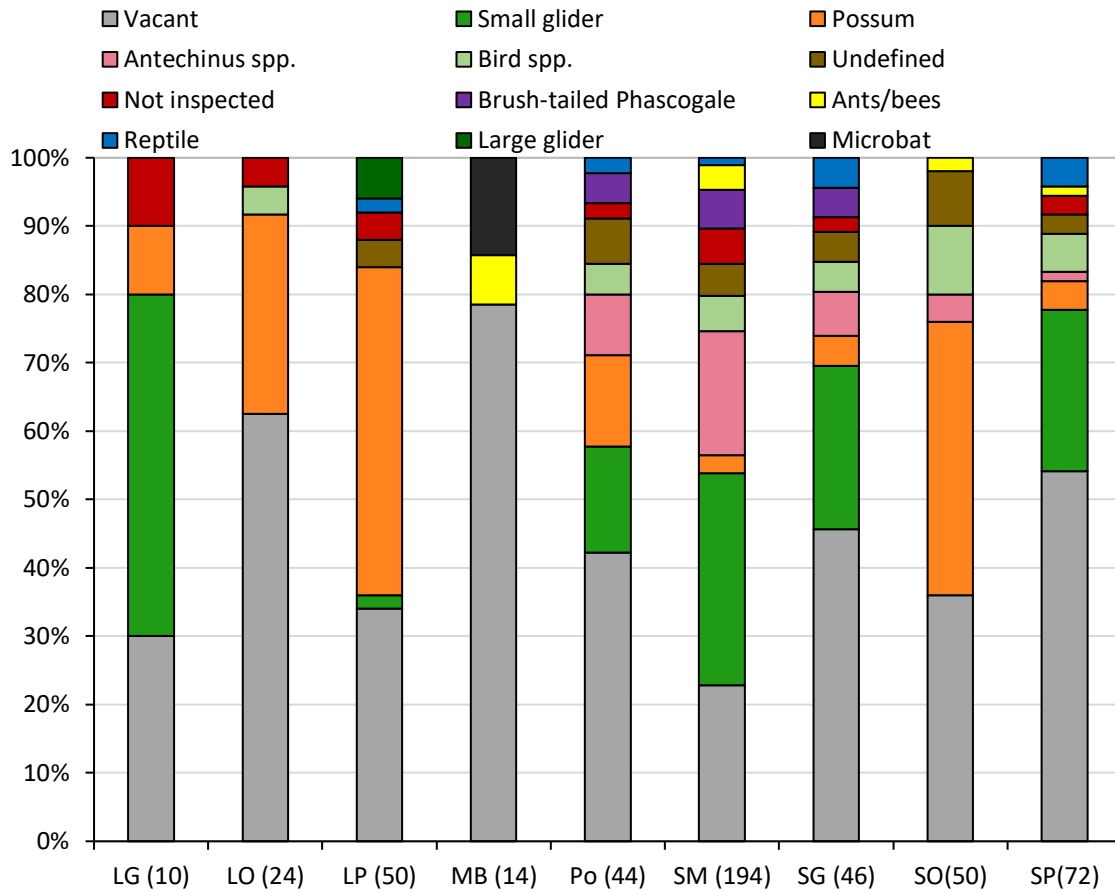


Figure 10: Fauna recorded using design-specific box types during nest box monitoring (2020-2021) at section 2. Numbers in parenthesis indicate the total number of boxes inspected over the two sample periods (spring 2020 and autumn 2021). LG = large glider, LO= large owl, LP= large parrot, MB = microbat, Po=possum, SM = scansorial mammal, SG= small glider, SO= small owl and SP = small parrot. Undefined = remnant nest material or chew markings.

3.1.3 Nest box condition and maintenance

A total of 13 (7.6%) boxes in section 1 and 14 (5.5%) in section 2 required maintenance or replacement during the 2020-21 operational monitoring (Figure 10). The “unknown” nest boxes in Figure 10 include three boxes on inaccessible private property in Section 1, and three boxes unable to be found due to co-ordinate error or burnt in section 2. Causes for repair included burnt (S1 = seven boxes, S2=nine boxes), wire/spring failure (S1 = three boxes, S2 = one box), lid/hinge reattachment (S1=two boxes, S2=four boxes) and wire growing into tree (S1 = one box) (see Appendix A, Table A1 and Appendix B, Table B1). A total of 21 repairs were undertaken in July 2021 including replacement of burnt boxes (n=16) with Cyplas designs, box reinstatement at section 1 (n=2), lid reattachment at section 1 (n=2) and wire repaired on hanging scansorial mammal box at section 1 (n=1) (see Appendix A, Table A1, and Appendix B, Table B1). A further six boxes had deteriorated (i.e. missing one hinge with lid still attached, or partial lid deterioration) yet were deemed functional.

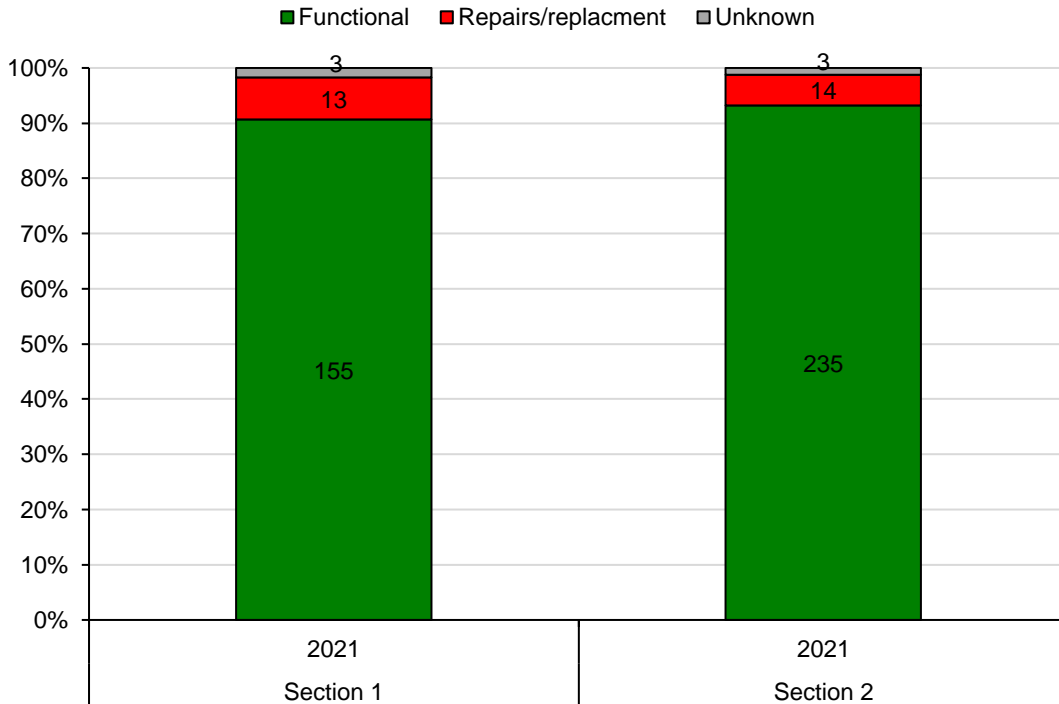


Figure 11: Nest boxes requiring repair or replacement during operational phase monitoring at W2HC (Section 1) and HC2G/WC2G (Section 2), 2020-2021.

3.2 Chainsaw hollows

Excluding hollows not inspected ($n=9$) chainsaw hollow inspections found evidence of use remained constant at 16.2% (7 boxes) during spring 2020 and autumn 2021 monitoring (Figure 11). Feathertail glider nests (*Acrobates spp.*) were found in small mammal ($n=2$ spring/autumn), medium mammal ($n=1$ spring/autumn) and in a small microbat hollow ($n=1$ spring) (see Appendix C, Table C1). *Antechinus spp.* dens were found in medium mammal hollows ($n=2$, one during spring and two during autumn) and a small microbat ($n=1$ autumn) (see appendix C, Table C1). Possible microbat scat was detected in a single box during spring 2020 monitoring (see Appendix C, Table C1).

Two individuals (squirrel glider and *Egernia spp.*) were recorded using chainsaw hollows during the autumn 2021 inspection (Figure 11). Squirrel glider was recorded using a medium mammal hollow (see Appendix C, Table C2), and *Egernia spp.* (Tree-skink) was recorded in a large microbat hollow (see Appendix C, Table C2). Arboreal ant occupancy increased from five hollows in spring 2020 to eight in autumn 2021 (Figure 11).

Vacancy rates decreased from 67.4% (29 hollows) in spring to 55.8% (24 hollows) in autumn (Figure 11). Additionally, nine hollows were not inspected during either sample (Figure 11) due to destruction from bush fires ($n=7$, Plate 2) and two were not found. These are either duplicates in the dataset (i.e. there were two #710 and 714) or were burnt (see Appendix C, Table C1).

During inspections, epicormic growth was removed around several hollows (five during spring 2020 and three during autumn 2021) to facilitate passage for fauna (plate 2, see Appendix D). Arboreal ants were also present in relatively high abundance occupying five hollows during spring and eight during autumn (Figure 12).

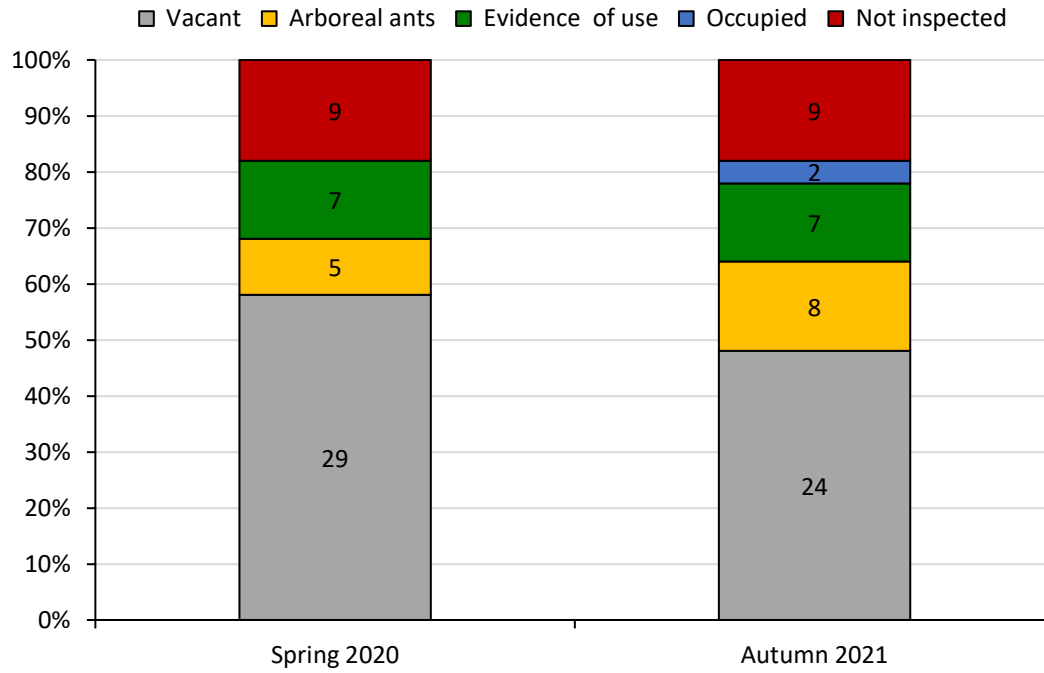


Figure 12: Number and proportion of hollowed used by vertebrate fauna (occupied or evidence of use), arboreal ants, unused (vacant) and boxes not inspected (due to damage or missing) during operational phase monitoring (spring and autumn) at HC2G/WC2G (Section 2), 2020-2021



Plate 2: Epicormic growth surrounding entry of chainsaw hollows (left). One of several chainsaw hollows destroyed by fire (right).

3.2 Bat boxes and structures

Culverts and adjacent bat boxes were inspected on 10 November 2020 and 18 May 2021. Operational phase monitoring of microbat structures found threatened microbat species using (occupying or evidence of use) habitat design features at all impact sites and two of the three control sites (Table 7). Large-footed myotis (in autumn 2020 and spring 2021) were found using two multi-chambered boxes located beneath the Halfway Creek twin bridges (site 25, Table 7). Forty to fifty individuals were located in the box beneath the northbound bridge, and two individuals in the box under the southbound bridge (Table 7). Little bent-winged bats were recorded roosting at three impact sites, Boney's Creek (250-300 individuals), Halfway Creek culvert (450-500 individuals), Glenugie bebo arch (150-175 individuals) and at the Grays road box culvert (control site 80-115) in autumn 2021 (Table 7). Individuals were recorded using culvert joints at all sites with one bat box in the Halfway Creek culvert occupied by little bent-winged bats (see Appendix D, Table D1). No little-bent winged bats were recorded during spring other than one individual roosting in the Halfway Creek culvert (Table 7). Microbats were not observed at North Boney's Creek or Old highway box culverts during both monitoring periods (Table 7). No microbats were recorded using bat boxes installed in adjacent habitat. All boxes were in functional order.

The inspection identified a large area of suitable roosting habitat in addition to bat boxes. Potential roost sites included joints greater than 20 mm wide between box sections, roughened culvert ceiling, uneven box sections and lift points (Plate 2). The Halfway Creek and Boney's Creek culverts had the largest area of roosting habitat with over 40 suitable joints and artificially roughened ceiling recorded at each site (Table 7). The subject culverts could support several thousand non-breeding bent-winged bats during late autumn/winter. The number of bats recorded is not indicative of the total number that are likely to utilise the sites.



Plate 3: Microbat scuff marks around lift point (a) and culvert joints surrounded by roughened concrete (b). Microbat scat below bat boxes (c) and culvert joints (d).

Table 7: Results of microbat drainage structures monitored at sections 1 and 2. * denotes control sites. ^A Includes joins, obverts, roughened concrete, lift points and lip overhangs; SB = southbound; NB = northbound; H'way = Halfway; Sjl= suitable joins; JR = roughened joins

| Season | Section | ID | Site Name | Structure type | Roost features | Number of boxes | Species present box | Species present joins/ lift points/lip | No. individuals | Evidence of use box | Evidence of use other habitat ^A | Observed habitat value |
|--------|---------|------|------------------|------------------------------------|---------------------------|-----------------|------------------------|--|------------------|---------------------|--|------------------------|
| Autumn | 1 | 46 | Boneys Creek | Box culvert & adj boxes | 41 SJ; 31 JR | 8 | - | <i>Miniopterus australis</i> | 250-300 | - | Yes | High |
| | 1 | 49 | Nth Boneys | Box culvert | 8 SJ; 10 JR | 2 | - | - | - | - | - | Low- Moderate |
| | 1 | 66* | Grays Rd | Box culvert | SJ in all cells | 0 | - | <i>Miniopterus australis</i> | 80-115 | N/A | Yes | High |
| | 1 | 67* | Grays Road nth | Pipe culvert | | 0 | NA | - | - | N/A | - | Low |
| | 2 | 25 | H'way Ck culvert | Box culvert | 49 SJ; 8 sections with JR | 11 | NA | <i>Miniopterus australis</i> | 450-500 + 4 dead | - | Yes | High |
| | 2 | 25.1 | H'way Ck bridge | Boxes beneath bridge | | 2 | <i>Myotis macropus</i> | - | SB=2; NB45-50 | Yes | - | High |
| | 2 | 32 | Glenugie Ck | Bebo arch & boxes (east side only) | 12 SJ | 4 | - | <i>Miniopterus australis</i> | 150-175 | - | - | High |
| | 2 | 40* | Old highway | Box culvert | 10 SJ | 0 | NA | - | - | N/A | Yes | High |
| Spring | 1 | 46 | Boneys Creek | Box culvert & adj boxes | 41 SJ; 31 JR | 8 | - | <i>Myotis macropus</i> | 2 | Yes | Yes | High |
| | 1 | 49 | Nth Boneys | Box culvert | 8 SJ; 10 JR | 2 | - | - | - | Yes | - | Low- Moderate |
| | 1 | 66* | Grays Rd | Box culvert | SJ in all cells | 0 | NA | - | - | N/A | Yes | High |
| | 1 | 67* | Grays Road nth | Box culvert | | 0 | NA | - | - | N/A | - | Low |
| | 2 | 25 | H'way Ck culvert | Box culvert | 49 SJ; 8 sections with JR | 11 | - | <i>Miniopterus australis</i> | 1 | Yes | Yes | High |
| | 2 | 25.1 | H'way Ck bridge | Boxes beneath bridge | | 2 | <i>Myotis macropus</i> | - | SB=2; NB45-55 | Yes | - | High |
| | 2 | 32 | Glenugie Ck | Bebo arch & boxes (east side only) | 12 SJ | 4 | - | - | - | - | - | High |
| | 2 | 40* | Old highway | Box culvert | | 0 | NA | - | - | N/A | Yes | High |

4. Discussion

4.1 Summary of key findings

Tables 8 and 9 present a summary of major findings of the 2020/21 operational nest box and microbat structure monitoring in the context of the performance measures outlined by the relevant management plans for sections 1 and 2 (Biosis, 2014; Ecosure, 2014; Geolink, 2014).

Table 8: Summary of key findings in relation to NBMP's performance criteria for sections 1 and 2 nest boxes.

| Performance criteria | Finding |
|---|--|
| Use of nest boxes by a wide variety of hollow-using native fauna species | Species diversity occupying nest boxes at sections 1 and 2 were higher than other Pacific Highway projects, and is considered to meet the performance criteria of a wide variety of hollow using native species. Furthermore, four threatened species were recorded using nest boxes. |
| Species using nest boxes is consistent with the nest box design | In section 1, small and medium nest boxes, including small glider, possum, feathertail glider, lorikeet/treecreeper and scansorial mammal designs, were used by the target species. Larger nest boxes, such as cockatoo/owl, quoll and large glider, and microbat boxes were not used by the target species. These findings are consistent with other highway nest box programs. |
| Low rates of exotic fauna use | Overall, the incidence of feral species occupation was very low. One active European beehive was detected in a single box in section 2 during year one monitoring. |
| Reduced maintenance requirements | In 2020/21, excluding burnt boxes, maintenance requirements were consistent with and/or lower than other highway projects. |

Table 9: Summary of key findings in relation to MMP performance criteria for operational monitoring in sections 1 and 2 microbat drainage structures.

| Monitoring component | Performance measure | Finding |
|---|---|--|
| Habitat design features within drainage structures | Observe uptake, breeding and persistent use of replacement roosting habitat with evidence of usage confirmed consistently (number not decreasing over two years). | Culvert joins and roughened concrete were readily used by little bent-winged bats. Breeding was not confirmed during this survey yet may occur at Halfway Creek. The monitored structures most likely provide substantially more habitat than was available prior to construction. |
| Bat boxes | Observe uptake, breeding and persistent use of replacement roosting habitat with evidence of usage confirmed consistently (number not decreasing over two years). | Bat boxes were occupied at Halfway Creek bridge (large-footed myotis) and culvert (little bent-winged) sites, with evidence of use in other impact structures. Myotis may breed in bat boxes at Halfway Creek. Bat boxes in adjacent habitat were not utilised. |
| Control sites (drainage structures 40, 66, 67). | Identify natural variability of microbats within the project footprint. | Evidence of little bent-winged bats was recorded at reference sites with peak occupancy in late autumn and winter. |

4.2 Nest boxes and chainsaw hollows

4.2.1 Use of nest boxes by a wide variety of hollow-using native fauna species

Species richness at W2HC (combined sections 1 W2HC and sections 2/2A HC2G and WC2G) was higher than other nest box projects on the north coast of NSW with a total of 17 species and genera recorded. For example, between nine and 15 species and genera were recorded during monitoring for the Hunter Expressway (Sandpiper 2013), 14 at Nambucca to Urunga (NH2U, Sandpiper 2021) and nine have been recorded on several projects including Warrell Creek to Nambucca Heads (Sandpiper 2020), Cooperook to Herons Creek and Sapphire to Woolgoolga (Sandpiper 2015, 2016).

Small petaurid gliders (sugar and squirrel glider) were frequent nest box users throughout both sections 1 and 2 in spring and autumn 2020/21. This is consistent with Goldingay *et al.* (2020) and is likely a reflection of the species broad habitat requirements, local abundance, and high number of suitable boxes (e.g. boxes with small entrances). Reptiles (2 species) and frogs (1 species) were the least detected fauna group which is not surprising given that they were not targeted by the nest box program and often do not leave obvious evidence of use (i.e. nesting material).

Low use of nest boxes by birds is consistent with other nest box programs (e.g. Menkhorst 1984; Sandpiper 2016, 2017, 2018, 2019). While infrequent use of nest boxes by birds may indicate that adequate hollow resources exist in the local landscape, other limiting factors include: (1) use of nest boxes for temporary roosting (Lindenmayer *et al.* 2009); (2) box thermoregulation (Goldingay and Stevens 2009); (3) placement (nest box location within a tree and landscape) (Saunders *et al.* 2020); (4) competitive interactions with other species and congeners; (5) box humidity (Strain *et al.* 2021); and (6) rapid occupation of suitable boxes by mammals (Lindenmayer *et al.* 2009). These findings suggest that birds make subtle choices about where to build nests and hence nest box placement within a given landscape strongly influences use.

Chainsaw hollows exhibited lower use (46-56% vacancy) in comparison to nest boxes (27%-38% vacancy). Several of the chainsaw hollow designs targeted microbats and only one record of a microbat was obtained. This result is consistent with several other highway projects (Goldingay 2019). Additionally, epicormic growth obstructed flyways and entrances of several microbat chainsaw hollows prior to the spring survey. Epicormic growth may be a continuing maintenance issue. Use of chainsaw hollows by feathertail glider, antechinus and squirrel glider is encouraging and ongoing monitoring may record similar rates of use to nest boxes, as shown by Terry *et al.* (2021) for brush-tailed phascogale and squirrel glider. While use of chainsaw hollows in section 2 was lower than previous studies, uptake of hollows is expected to increase over time.

Monitoring has shown once again that nest boxes are effective in providing habitat for threatened hollow dependent fauna with four threatened species confirmed during the study. These included squirrel glider, yellow-bellied glider, brush-tailed phascogale and Stephens' banded snake, which are all listed as vulnerable under the NSW *Biodiversity Conservation Act 2016*. Squirrel glider was also recorded using a medium sized chainsaw hollow. Use of single boxes by two yellow-bellied gliders is of particular interest as there are only a few records of that species using artificial hollows.

4.2.2 Species use of nest boxes is consistent with the species targeted by the nest box design

Five of nine box types (55%) were used by target species in both sections 1 and 2. Box entrance size is considered important in determining use by target species (Goldingay *et al.* 2020). Small gliders had the highest use by a target species in both sections. This result is consistent with monitoring conducted for the Nambucca Heads to Urunga upgrade where small gliders used 59% of target boxes (Sandpiper 2021). Goldingay *et al.* (2020) found that small gliders were far more likely to use the small glider box due to its small diameter opening in comparison to other nest box designs such as possum, cockatoo and small owl. Lorikeet/treecreeper, scansorial mammal and feathertail glider designs also had small diameter entrances, which likely contribute to moderate levels of use by small gliders.

Acrobates spp. favoured the smaller entry designs with records within the design specific feathertail glider boxes and also scansorial mammal, small glider and lorikeet/treecreeper designs. Possum species (e.g. short-eared brushtail possum, common brushtail possum, and common ringtail possum) were excluded by smaller entrance designs (SG, L/T, SM, MB) with records in design specific possum boxes and also in quoll, Cockatoo/owl and large glider designs.

Lorikeet/treecreeper and parrot boxes recorded relatively low use by target species, a result partly attributed to exclusion through occupation by other species, particularly small gliders (Menkhorst, 1984; Goldingay *et al.* 2020). Glider leaf nests can exclude use by parrots, which prefer a decayed wood base for nesting (Lewis, 2016). Rapid uptake of boxes by gliders would preclude parrots, which only begin searching for nest sites prior to the breeding season.

Cockatoo and large owl designs were not used by the target species, which is consistent with monitoring at other sites (Sandpiper Ecological, 2015, 2017, 2020, Goldingay, 2019). Although glossy-black cockatoo (*C. lathami*) and red-tailed black cockatoo (*C. banksii*) have been recorded using round polyvinyl chloride nest boxes on Kangaroo Island and in western Victoria respectively (Goldingay & Stevens 2009), and Carnaby's black cockatoo (*C. latirostris*) has been recorded using a variety of designs in Western Australia (Groom 2010) there is a paucity of records of cockatoos using plywood nest boxes. It is unclear if this is due to poor design and/or placement, both of which influence box usage by Carnaby's cockatoo (Saunders *et al.* 2020), or an adequate supply of suitable natural hollows. Similarly, there are few records of owls using nest boxes (Thomson 2006; Goldingay 2019). Indeed, owls and cockatoos have not been recorded using any nest boxes installed for the Pacific Highway upgrade and based on existing evidence these box designs should not be included in future nest box programs.

Microbats were not recorded using the target boxes at, which is consistent with several other highway nest box projects (Goldingay 2019). A paucity of knowledge in relation to roosting ecology of microbats and lack of species-specific box designs may contribute to low uptake (Goldingay 2019). A study investigating nest box use by Gould's wattled bat (*Chalinolobus gouldii*) found that occupancy increased 11 fold after a new nest box design was installed. However, Goldingay (2019) highlights that there is no benchmark for tree hollow use by microbats and given their mobile nature, nest boxes are unlikely to provide benefits apart from those associated with installation in drainage structures (bridges and culverts).

4.2.3 Low rates of exotic fauna use

Rates of nest box use by feral species was low during both samples. European bees have been considered a problem for nest box programs as they occupy boxes to the exclusion of targeted species (Beyer and Goldingay, 2006; Lewis, 2016). Occupancy rates for European bees in sections 1

and 2 (only one active hive <1%) was lower or equivalent to nest box monitoring at Cooperook to Herons Creek (2.5% active hives) and Warrell Creek to Nambucca heads (<1% active hives) (Sandpiper 2015, 2020). At NH2U, abandoned European beehives were recorded on 22 occasions, often being replaced by small glider dens during the subsequent sample (Sandpiper, 2021). Observations from previous research (Goldingay *et al.* 2015) suggest European beehive infestations can be ignored as hives are typically abandoned within 12 months and are replaced by native vertebrates. No ameliorative action was undertaken regarding active European beehives during 2020/21 sampling.

Ants were recorded using nest boxes and chainsaw hollows. Ants are commonly found in nest boxes and there is limited information regarding potential competitive interactions between them and native vertebrates (Goldingay 2006). A study by Dobson (2002 cited in Beyer and Goldingay 2006) reported that squirrel gliders were not deterred by the presence of ants and feathertail gliders have been observed in bat boxes containing ants. No ameliorative action was undertaken regarding ant occupancy during the 2020/21 monitoring based on this information.

4.2.4 High level of nest box durability with minimal maintenance requirements.

Aside from nest box damage due to fire (S1 = seven boxes, and S2 = 9 boxes), the majority of nest boxes remain in fair condition. The number of boxes requiring repair or replacement will increase over time, although, considering they have been installed for 5-6 years boxes in sections 1 and 2 have fared better than many other sites. For example, all 79 boxes installed for the Cooperook to Herons Creek upgrade required maintenance or replacement seven years after installation (Sandpiper Ecological 2015), with a similar result recorded at Sapphire to Woolgoolga (Sandpiper, 2016). Beyer and Goldingay (2006) suggested that most plywood boxes would persist for ~5 years but conceded that box design and site features influenced longevity. The increased longevity of boxes in sections 1 and 2 may be due to the predominance of drier forest types and lower rainfall than other monitoring sites.

4.3 Microbat drainage structures

4.3.1 Observe uptake, breeding and persistent use of replacement microbat roosting habitat.

Evidence suggests that the monitored drainage structures provide autumn/winter roosting habitat for a large number of bent-winged bats. Importantly, design features such as wider joints, bat boxes within culverts, and roughened surfaces contribute to the sites roosting potential. Whilst roughened surfaces may not be consistently used as daytime roosts evidence suggests they are used as temporary roosts at night. Breeding was not recorded in structures, although large-footed myotis may breed in bat boxes at Halfway Creek. Evidence suggests that the subject structures provide a larger area of suitable roosting habitat than was available prior to construction.

5. Contingency Measures and Recommendations

5.1 Contingency Measures

Contingency measures specified in the NBMP (Biosis, 2014, Ecosure, 2014) and MMP (Geolink, 2015) with mitigation measures applicable to the project are addressed in bold text in Table 10 (nest boxes) and Table 11 (Microbat drainage structures).

Table 10: Potential problems outlined in NBMP and possible contingency measures.

| Problem | Contingency/Corrective action |
|--|--|
| Poor uptake and usage rates by native fauna | Review the type and number of nest box designs. No action required – nest box occupancy and use by native species is consistent with other projects and published data and is expected to increase over time. |
| Nest boxes being used by non-target species | Review the selection and number of nest box designs. No action required – 55% of the specific designed box types were used by target species in both sections. Unused box types (i.e. large parrot, owl, quoll) are consistent with other studies. Relocating boxes is unlikely to improve use. |
| Nest boxes become occupied by exotic or invasive fauna | Review/modify nest box design to exclude undesirable species, treat if applicable or relocate those nest boxes to another location. No action required - incidence of feral species (European bees) occupation was low. |
| Nest boxes deteriorating rapidly and requiring maintenance | Identify causes of nest box failure, modify design and construct accordingly. Twenty-one boxes were replaced or repaired during the sample period. The proportion of boxes affected by rot, termites and hinge failure is substantially lower than equivalent nest box programs. |

Table 11: Problems and contingency measures specified in the section 1 and 2 microbat management plan.

| Monitoring component | Problem | Contingency/Corrective action |
|--|--|--|
| Habitat design features within drainage structures | Low uptake or non-persistent use (records decreasing over two years) | Modify the design of existing roost features. Consider provision of additional roost features. No action required. Results show high use of monitored structures and artificial habitat features. Significant increase in available habitat compared to pre-construction conditions. |
| Bat boxes | Low uptake or non-persistent use (records decreasing over two years) | If not inhabited by microbats following completion of construction on the subject drainage structures, bat boxes would be relocated within the new RCBCs. No action required. Most adjacent bat boxes were relocated to drainage structures at Boneys Creek and Boneys Creek north. Relocation at other sites is not deemed necessary due to the high uptake of culvert joins and roughened surfaces, and large amount of suitable permanent habitat. |

5.2 Recommendations

Recommendations from the year one operational phase nest box and bat structure monitoring program are summarised in Table 12.

Table 12: Recommendations based on findings from operational phase monitoring and response from TfNSW.

| Number | Recommendation | Transport for NSW Response |
|--------|---|----------------------------|
| 1. | Continue monitoring as per relevant NBMPs | Agreed and adopted |

6. References

- Beyer, G. L., & Goldingay, R. L. (2006). The value of nest boxes in the research and management of Australian hollow-using arboreal marsupials. *Wildlife Research*, 33(3), 161-174.
- Biosis (2014). Nestbox Management Plan. Woolgoolga to Ballina Pacific Highway Upgrade, Section 1 - Woolgoolga to Halfway Creek. Report for RMS. Biosis Pty Ltd.
- Danvers, J. and Michniewicz, R. (2018). *Nest Box Monitoring 2017/2018 Oxley Highway to Kempsey, Pacific Highway Upgrade*. Niche Environment and Heritage, Port Macquarie.
- Ecosure (2014). Woolgoolga to Ballina Pacific Highway Upgrade Habitat Tree Assessment and Nest Box Management Plan for Section 2 - Halfway Creek to Glenugie. Report for RMS.
- Ecosure (2016). Ecological Monitoring Annual Report 2016 – Section 2 W2B Pacific Highway Upgrade.
- Franks, A., and Franks, S. (2003) *Nest boxes for Wildlife – A Practical Guide*. Bloomings Books, Melbourne.
- GeoLINK (2014b). Woolgoolga to Glenugie Pacific Highway Upgrade Targeted Bat Surveys – Section 2 (Ref. 2149-1045). Unpublished report to Roads and Maritime Services.
- Goldingay, R. L., Rueegger, N. N., Grimson, M. J. and Taylor, B. D. (2015). Specific nest box designs can improve habitat restoration for cavity-dependent arboreal mammals. *Restoration Ecology*:
- Goldingay, R. L. and Stevens, J. R. (2009). Use of artificial tree hollows by Australian birds and bats. *Wildlife Research* 36(2) 81-97.
- Goldingay, R. L. (2019) Nest box review and evaluation of nest box projects conducted for the New South Wales Roads and Maritime Services.
- Goldingay, R. L., Rohweder, D., & Taylor, B. D. (2020). Nest box contentions: Are nest boxes used by the species they target? *Ecological Management & Restoration*, 21(2), 115-122.

- Groom, C. (2010). *Artificial hollows for Carnaby's black cockatoo - An investigation of the placement, use, monitoring and maintenance requirements of artificial hollows for Carnaby's black cockatoo*. Department of Environment and Conservation, Western Australia.
- Le Roux, D. S., Ikin, K., Lindenmayer, D. B., Bistricher, G., Manning, A. D. and Gibbons, P. (2016). Effects of entrance size, tree size and landscape context on nest box occupancy: Considerations for management and biodiversity offsets. *Forest Ecology and Management* 366, 135-142.
- Lewis, B.D (2016). Warrell Creek to Urunga: Nest Box Plan of Management. Report prepared for the Roads and Maritime Services.
- Lindenmayer, D. B., Welsh, A., Donnelly, C., Crane, M., Michael, D., Macgregor, C., ... & Gibbons, P. (2009). Are nest boxes a viable alternative source of cavities for hollow-dependent animals? Long-term monitoring of nest box occupancy, pest use and attrition. *Biological Conservation*, 142(1), 33-42.
- Menkhorst, P. A. (1984). The application of nest boxes in research and management of possums and gliders. Pages 517-525 in *Possums and Gliders*, Eds A. Smith and I. Hume, Surrey Beatty and Sons, Chipping Norton.
- Ruegger, N. (2017). Artificial tree hollow creation for cavity-using wildlife—Trialling an alternative method to that of nest boxes. *Forest Ecology and Management*, 405, 404-412.
- Ruegger, N., Goldingay, R. L., Law, B., & Gonsalves, L. (2019). Limited use of bat boxes in a rural landscape: implications for offsetting the clearing of hollow-bearing trees. *Restoration Ecology*, 27(4), 901-911.
- Sandpiper Ecological Surveys. (2013). *Hunter Expressway Kurri Kurri to Branxton -Nest Box Inspection #4 and Nest Box Program Summary*. Report prepared for AbiGroup Contractors.
- Sandpiper Ecological Surveys. (2015). *Pacific Highway Upgrade: Coopernook to Herons Creek. Nest Box Monitoring – Operational Phase Year 5*. Report prepared for Roads and Maritime Services NSW.
- Sandpiper Ecological Surveys. (2016). *Pacific Highway Upgrade: Sapphire to Woolgoolga. Progress Report: Nest Box Monitoring – Operational Phase, Year 2*. Report prepared for Roads and Maritimes Services NSW.
- Sandpiper Ecological Surveys. (2017). *Pacific Highway Upgrade: Woolgoolga to Halfway Creek. Nest box monitoring report autumn 2017 (year 2)*. Report prepared for Roads and Maritimes Services NSW.
- Sandpiper Ecological Surveys (2018a). *Year 2 construction phase monitoring of microbat culverts and associated roost boxes at Woolgoolga to Halfway Creek (section 1) Pacific Highway Upgrade*. Letter report prepared for OHLY Joint Venture.
- Sandpiper Ecological Surveys. (2018b). *Pacific Highway Upgrade: Glenugie Nest Box Monitoring Program*. Report prepared for Roads and Maritime Services NSW.
- Sandpiper Ecological Surveys. (2019). *Pacific Highway Upgrade: Nambucca Heads to Urunga. Nest box Monitoring Report - Operational Phase, Year One*. Report prepared for Roads and Maritime Services NSW.

Sandpiper Ecological Surveys. (2020). *Pacific Highway Upgrade: Warrell Creek to Nambucca heads. Nest box Monitoring Report - Operational Phase, Year One*. Report prepared for Transport for New South Wales.

Sandpiper Ecological Surveys. (2021). *Pacific Highway Upgrade: Nambucca Heads to Urunga. Nest box Monitoring Report - Operational Phase, Year two*. Report prepared for Transport for New South Wales.

Saunders, D. A., Dawson, R., Mawson, P. R., & Cunningham, R. B. (2020). Artificial hollows provide an effective short-term solution to the loss of natural nesting hollows for Carnaby's Cockatoo *Calyptorhynchus latirostris*. *Biological Conservation*, 245, 108556.

Strain, C., Jones, C. S., Griffiths, S. R., & Clarke, R. H. (2021) Spout hollow nest boxes provide a drier and less stable microclimate than natural hollows. *Conservation Science and Practice*: 3, e416.

Terry, W., Goldingay, R. L., & van der Ree, R. (2021). Can chainsaw carved hollows provide an effective solution to the loss of natural tree cavities for arboreal mammals? *Forest Ecology and Management*, 490, 119122.

Thomson, C. N. (2006). A Trial of the Use of Artificial Nest-boxes for the Masked Owl *Tyto novaehollandiae* near Newcastle, New South Wales. *Australian Field Ornithology* 23 192-197.

Transport for New South Wales (2019) Wells Crossing to Glenugie Project (Franklins Rd to Glenugie) Addendum - Habitat Tree Assessment and Nest Box Management Plan for Section 2 Halfway Creek to Glenugie

Appendix A–Section 1 nest box monitoring data 2020-21.

Table A1: Section 1 (W2HC) autumn and spring nest box monitoring data 2020-2021.

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|------------------|-------------------------|------------------|-----------|--|----------------------|
| 1 | Cock_Owl | Ply | 517887 | 6674740 | 26/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 2 | Pos | Ply | 517876 | 6674754 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 3 | GLF | Ply | 517881 | 6674744 | 28/04/2021 | - | Acrobates spp. | - | Good | - | - |
| 4 | A | Ply | 517885 | 6674761 | 28/04/2021 | - | Not inspected | Not inspected | Severe | Box burnt | Boxes replaced |
| 5 | Pos | Ply | 517690 | 6674899 | Not inspected | Not inspected | - | - | Good | - | 2 x fled |
| 6 | GLF | Ply | 518093 | 6676192 | 22/04/2021 | Squirrel glider | Petaurid spp. | - | Good | - | - |
| 7 | BTP | Ply | 518081 | 6676202 | 22/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 8 | TC | Hardwood | 518087 | 6676214 | 22/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 9 | BTP | Ply | 518123 | 6676310 | 22/04/2021 | - | - | - | Good | - | - |
| 9.1 | Pos | Cyplas | 512446 | 6686049 | 27/04/2021 | - | - | - | Good | - | - |
| 9.2 | FTG | Cyplas | 512438 | 6686045 | 27/04/2021 | - | - | - | Good | - | - |
| 9.3 | GLF | Ply | 516083 | 6680753 | 25/06/2021 | - | Acrobates spp. | - | Good | - | - |
| 10 | TC | Hardwood | 518119 | 6676322 | 22/04/2021 | - | Old leaf | - | Good | - | - |
| 10.1 | Pos | Hardwood | 512775 | 6685858 | 27/04/2021 | - | - | - | Good | - | - |
| 10.1.1 | Pos | Cyplas | 512827 | 6685956 | 27/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 10.1.2 | BTP | Ply | 512793 | 6685982 | 27/04/2021 | - | - | Not inspected | Severe | Destroyed | Boxes replaced |
| 10.2 | Cock_Owl | Ply | 512786 | 6685860 | Not inspected | - | - | - | Good | - | - |
| 10.3 | B1 | Ply | 512760 | 6685876 | 27/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 10.4 | SmP | Ply | 512807 | 6685856 | 27/04/2021 | - | Old leaf | - | Good | - | - |
| 10.5 | GLF | Ply | 512852 | 6685768 | 27/04/2021 | - | Brush-tailed Phascogale | - | Good | - | - |
| 10.6 | Pos | Cyplas | 512857 | 6685759 | 27/04/2021 | - | Trichosurus spp. | - | Good | - | Climber |
| 10.7 | Cock_Owl | Ply | 512857 | 6685783 | 25/06/2021 | - | Antechinus spp. | - | Good | - | - |
| 10.8 | Pos | Hardwood | 512857 | 6685783 | 28/04/2021 | - | - | Not inspected | Severe | destroyed | Boxes replaced |
| 10.9 | GLF | Ply | 512834 | 6685946 | Not inspected | - | Acrobates spp. | - | Good | - | - |
| 11 | FTG | Ply | 518119 | 6676322 | 25/11/2020 | - | Petaurid spp. | - | Good | - | Climber |
| 12 | Cock_Owl | Ply | 517941 | 6676221 | 25/06/2021 | - | Antechinus spp. | - | Good | - | - |
| 13 | A | Ply | 517936 | 6676229 | 27/04/2021 | - | - | - | Good | - | - |
| 14 | GLF | Ply | 517919 | 6676212 | 27/04/2021 | Sugar glider | Antechinus spp. | - | Good | - | - |
| 14.1 | SmP | Ply | 513202 | 6684061 | 28/04/2021 | - | - | - | Good | - | - |
| 14.2 | B1 | Ply | 513203 | 6684070 | 28/04/2021 | - | - | Not inspected | Severe | Tree cut down box fine needs putting back up | Box put back up tree |
| 14.3 | FTG | Ply | 513207 | 6684055 | Not inspected | - | - | Active ants nest | Good | - | - |
| 14.4 | GLF | Ply | 513327 | 6684024 | 28/04/2021 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 14.5 | BTP | Ply | 513331 | 6684022 | 28/04/2021 | Aboreal Ants | Antechinus spp. | - | Good | - | - |
| 14.6 | Pos | Cyplas | 513344 | 6684015 | 28/04/2021 | - | Trichosurus spp. | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|-----|----------|----------|-----------|-----------------|------------------|-------------------------|------------------|-------------------|--------------------------------------|-------------------------|
| 15 | Pos | Ply | 517921 | 6676234 | 27/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 15.1 | GLF | Ply | 513478 | 6683473 | 28/04/2021 | - | - | - | Good | - | - |
| 15.2 | B1 | Ply | 513463 | 6683494 | 28/04/2021 | - | Acrobates spp. | - | Good | - | - |
| 15.3 | FTG | Ply | 513457 | 6683489 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 16 | GLF | Ply | 517980 | 6676348 | 27/04/2021 | - | - | - | Good | - | - |
| 17 | B1 | Ply | 517824 | 6675620 | 26/11/2020 | - | - | Not inspected | Severe | Box down | Boxes replaced |
| 18 | GLF | Ply | 517808 | 6675621 | Not inspected | - | Antechinus spp. | - | Good | - | - |
| 19 | A | Ply | 517803 | 6675610 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 20 | FTG | Ply | 517794 | 6675595 | 26/11/2020 | - | - | - | Climber box | - | Climber |
| 21 | PO | Metal | 517765 | 6675548 | 25/06/2021 | - | - | - | Good | - | - |
| 22 | Pos | Ply | 517765 | 6675548 | 26/11/2020 | - | - | - | Good | - | - |
| 23 | A | Metal | 517782 | 6675569 | 26/11/2020 | - | - | Active ants nest | Good | - | Moved to 515397.6681176 |
| 23.1 | GLF | Ply | 515397 | 6681176 | 13/11/2020 | Aboreal Ants | Petaurid spp. | - | Good | - | - |
| 23.2 | BTP | Ply | 515414 | 6681180 | 13/11/2020 | - | - | - | Good | - | - |
| 24 | STQ | Ply | 517776 | 6675305 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 25 | SmP | Hardwood | 517779 | 6675275 | 26/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 26 | STQ | Ply | 517923 | 6676177 | 27/04/2021 | - | Antechinus spp. | - | Good | Mod deterioration | - |
| 26.1 | A | Ply | 517061 | 6679557 | 26/11/2020 | - | - | - | Good | - | - |
| 26.2 | B1 | Cyplas | 517056 | 6679552 | 26/11/2020 | - | - | Active ants | Good | - | - |
| 26.3 | GLF | Ply | 517060 | 6679581 | 26/11/2020 | Aboreal Ants | Petaurid spp. | - | Good | Mod deterioration | - |
| 26.4 | SmP | Ply | 517023 | 6679624 | 26/11/2020 | - | Treecreeper spp. | - | Good | - | - |
| 27 | GLF | Ply | 517821 | 6676108 | 26/11/2020 | - | - | - | Good | - | - |
| 28 | A | Ply | 518240 | 6677259 | 29/04/2021 | Antechinus spp. | Acrobates spp. | - | Good | Need new wire, half hanging off tree | Wire repaired |
| 29 | | Ply | 518251 | 6677280 | 28/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 30 | TC | Hardwood | 518243 | 6677263 | 29/04/2021 | - | Not inspected | Not inspected | Good | - | Boxes replaced |
| 30.1 | BTP | Ply | 517772 | 6677807 | | Not inspected | Acrobates spp. | - | Good | - | - |
| 30.2 | SmP | Ply | 517782 | 6677830 | 26/11/2020 | - | Acrobates spp. | - | Good | Need to put lid back on | Lid reattached |
| 31 | A | Ply | 517871 | 6677774 | 29/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 31.1 | GLF | Ply | 518139 | 6677028 | 29/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 31.2 | FTG | Ply | 518116 | 6677030 | 29/04/2021 | - | - | - | Good | - | - |
| 31.3 | SmP | Ply | 517979 | 6677044 | 29/04/2021 | - | - | - | Good | - | - |
| 31.4 | B1 | Ply | 518023 | 6677025 | 29/04/2021 | - | Antechinus spp. | - | Lid deterioration | - | - |
| 31.5 | GLF | Ply | 518018 | 6677036 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 32 | A | Metal | 517861 | 6677766 | 29/04/2021 | - | - | - | Poor | - | Grown into tree |
| 33 | BTP | Metal | 517854 | 6677773 | | - | Acrobates spp. | - | Good | - | - |
| 34 | BTP | Ply | 515547 | 6681787 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 34.1 | GLF | Ply | 517827 | 6675795 | 29/04/2021 | - | - | Mud Wasps nest | Good | - | - |
| 35 | | Ply | 515542 | 6681801 | 28/04/2021 | - | Not inspected | - | Good | Box down | Box put back up tree |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|------------------|-------------------------|------------------|-----------|-------------|-------------------|
| 35.1 | GLF | Ply | 517727 | 6675166 | | - | Petaurid spp. | - | Good | - | - |
| 36 | Pos | Ply | 515578 | 6681571 | 29/04/2021 | - | - | - | Good | - | - |
| 37 | FTG | Metal | 515578 | 6681571 | 29/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 39 | FTG | Ply | 515653 | 6681494 | 29/04/2021 | - | - | Active ants nest | Good | - | - |
| 40 | TC | Metal | 515661 | 6681487 | 29/04/2021 | Aboreal Ants | - | - | Good | - | Climber |
| 41 | BOO | Ply | 515563 | 6681824 | 25/06/2021 | - | Antechinus spp. | - | Good | - | - |
| 42 | Pos | Ply | 515556 | 6681839 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 43 | SmP | Metal | 515715 | 6681382 | 29/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 44 | BTP | Ply | 515714 | 6681373 | 29/04/2021 | - | - | - | Good | - | - |
| 45 | A | Metal | 515703 | 6681390 | 29/04/2021 | - | - | - | Good | - | - |
| 46 | Pos | Ply | 515739 | 6681313 | 29/04/2021 | - | - | - | Good | - | - |
| 47 | FTG | Ply | 515768 | 6681332 | 29/04/2021 | Petaurid spp. | Old leaf | - | Good | - | - |
| 48 | TC | Hardwood | 515897 | 6681243 | 29/04/2021 | - | Old leaf | - | Good | - | - |
| 49 | GLF | Metal | 515885 | 6681239 | 29/04/2021 | - | - | - | Good | - | - |
| 50 | STQ | Metal | 516020 | 6681055 | 28/04/2021 | - | Trichosurus spp. | - | Good | - | Climber |
| 51 | Cock_Owl | Ply | 516004 | 6681090 | 25/06/2021 | - | - | - | Good | - | Couldn't see head |
| 52 | Pos | Metal | 516016 | 6681081 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 53 | Pos | Metal | 515654 | 6681131 | 28/04/2021 | - | - | - | Good | - | - |
| 54 | BTP | Metal | 515694 | 6681126 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 55 | SmP | Metal | 513856 | 6682742 | 28/04/2021 | - | - | Active ants nest | Good | - | - |
| 56 | BTP | Metal | 513858 | 6682746 | 28/04/2021 | Aboreal Ants | Trichosurus spp. | - | Good | - | - |
| 57 | Pos | Ply | 513847 | 6682753 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 58 | BTP | Ply | 513905 | 6682673 | 28/04/2021 | - | - | - | Good | - | - |
| 59 | B1 | Ply | 513912 | 6682674 | 28/04/2021 | - | - | - | Good | - | - |
| 60 | FTG | Ply | 514001 | 6682604 | 28/04/2021 | Sugar glider | Petaurid spp. | - | Good | - | - |
| 61 | GLF | Metal | 514008 | 6682611 | 28/04/2021 | - | - | - | Good | - | - |
| 62 | FTG | Metal | 514207 | 6682629 | 28/04/2021 | Petaurid spp. | Trichosurus spp. | - | Good | - | - |
| 63 | STQ | Ply | 514092 | 6682618 | 28/04/2021 | - | Acrobates spp. | - | Good | - | - |
| 64 | GLF | Ply | 514081 | 6682626 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 65 | TC | Hardwood | 514091 | 6682603 | 28/04/2021 | - | Lorikeet spp. | - | Good | - | - |
| 66 | GLF | Ply | 517158 | 6679308 | 29/04/2021 | - | - | - | Good | - | - |
| 67 | FTG | Ply | 517161 | 6679270 | 29/04/2021 | Sugar glider | - | - | Good | - | - |
| 68 | BTP | Ply | 517604 | 6678550 | 29/04/2021 | Squirrel glider | Antechinus spp. | - | Good | - | - |
| 69 | FTG | Ply | 517587 | 6678544 | 29/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 70 | | Ply | 517608 | 6678541 | 29/04/2021 | - | Not inspected | Not inspected | Severe | - | Box down |
| 71 | STQ | Metal | 517580 | 6678554 | Not inspected | Not inspected | Antechinus spp. | - | Good | - | - |
| 72 | A | Ply | 514209 | 6682626 | 28/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 73 | TC | Hardwood | 514203 | 6682630 | 28/04/2021 | - | - | Ant material | Good | - | - |
| 74 | A | Metal | 514089 | 6682628 | 28/04/2021 | - | - | Not inspected | No access | No access | No access |
| 75 | B1 | Ply | 514452 | 6682565 | Not inspected | - | - | Not inspected | No access | No access | No access |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|-------------------------|-------------------------|-------------------------------|-----------|---------------------|----------------|
| 76 | TC | Hardwood | 514445 | 6682563 | Not inspected | - | - | Not inspected | No access | No access | No access |
| 77 | BTP | Metal | 514467 | 6682552 | Not inspected | - | Antechinus spp. | - | Good | - | - |
| 78 | | Metal | 509931 | 6687485 | 22/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 79 | GLF | Ply | 509946 | 6687483 | 22/04/2021 | - | Old leaf | Paper wasp nest over entrance | Good | - | - |
| 80 | TC | Hardwood | 509963 | 6687490 | 22/04/2021 | - | Trichosurus spp. | - | Good | - | - |
| 81 | STQ | Ply | 510124 | 6687688 | 27/04/2021 | - | Acrobates spp. | - | Good | - | - |
| 82 | | Ply | 518268 | 6676963 | 22/04/2021 | - | Acrobates spp. | - | Good | - | - |
| 82 | | Ply | 510125 | 6687647 | 27/04/2021 | - | - | - | Good | - | - |
| 83 | B1 | Ply | 510929 | 6686893 | 27/04/2021 | - | - | - | Good | Hinges need new lid | Climber |
| 84 | Cock_Owl | Ply | 510865 | 6686934 | 25/06/2021 | Common brushtail possum | Petaurid spp. | - | Good | - | - |
| 85 | Pos | Metal | 510869 | 6686928 | 27/04/2021 | - | Australian owl nightjar | - | Good | - | Climber |
| 86 | Cock_Owl | Metal | 513124 | 6685001 | 25/06/2021 | - | Petaurid spp. | - | Good | - | - |
| 87 | Pos | Ply | 513114 | 6684978 | 28/04/2021 | - | Australian owl nightjar | - | Good | - | Climber |
| 88 | Cock_Owl | Ply | 513114 | 6684384 | 25/06/2021 | - | Trichosurus spp. | - | Good | - | - |
| 89 | Pos | Metal | 513114 | 6684384 | 28/04/2021 | - | - | - | Good | - | - |
| 90 | Pos | Metal | 513118 | 6684369 | 28/04/2021 | - | - | - | Good | - | - |
| 91 | BTP | Ply | 513115 | 6684358 | 28/04/2021 | - | Petaurid spp. | - | Good | - | Fled nest |
| 92 | TC | Hardwood | 513134 | 6684516 | 28/04/2021 | - | - | - | Good | - | - |
| 93 | GLF | Metal | 513122 | 6684524 | 28/04/2021 | - | - | - | Good | - | - |
| 94 | BTP | Metal | 513131 | 6684564 | 28/04/2021 | - | - | - | Good | - | - |
| 95 | BOO | Metal | 512990 | 6685583 | 27/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 96 | Pos | Ply | 512989 | 6685591 | 27/04/2021 | - | - | - | Good | - | - |
| 97 | B1 | Ply | 512090 | 6686250 | 28/04/2021 | - | Old leaf | - | Good | - | - |
| 98 | SmP | Hardwood | 513792 | 6683002 | 28/04/2021 | - | - | - | Good | - | - |
| 99 | B1 | Ply | 513799 | 6682968 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 100 | BTP | Ply | 513782 | 6682979 | 28/04/2021 | - | Old leaf | - | Good | - | - |
| 101 | FTG | Metal | 513771 | 6683004 | 28/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 102 | A | Ply | 513801 | 6682922 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 103 | BTP | Metal | 513812 | 6682917 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 105 | GLF | Metal | 513541 | 6683568 | 28/04/2021 | - | - | Not inspected | Severe | Burnt | Boxes replaced |
| 106 | A | Ply | 513537 | 6683578 | Not inspected | - | - | - | Good | - | - |
| 107 | TC | Metal | 513519 | 6683596 | 28/04/2021 | - | - | Not inspected | Severe | Burnt | Boxes replaced |
| 108 | GLF | Ply | 513483 | 6683667 | Not inspected | - | - | Active paper wasp nest | Good | - | - |
| 109 | BTP | Metal | 513486 | 6683659 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 110 | TC | Hardwood | 513570 | 6683735 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 111 | BOO | Ply | 513468 | 6683789 | 28/04/2021 | - | - | - | Good | - | - |
| 112 | Pos | Metal | 513468 | 6683789 | 28/04/2021 | - | - | - | Good | - | - |
| 113 | Pos | Ply | 513163 | 6683899 | 28/04/2021 | Antechinus | Antechinus spp. | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|-----------|----------|----------|----------|-----------|-----------------|-------------------------|-------------------------|------------------|-----------|--------------------|-----------|
| | | | | | | spp. | | | | | |
| 114 | TC | Hardwood | 510853 | 6686948 | 27/04/2021 | - | - | - | Good | - | - |
| 115 | STQ | Metal | 516236 | 6680819 | 28/04/2021 | - | - | - | Good | - | Climber |
| 116 | Pos | Ply | 516194 | 6680814 | 25/06/2021 | Common brushtail possum | Antechinus spp. | - | Good | - | - |
| 117 | A | Ply | 516225 | 6680820 | 28/04/2021 | - | Petaurid spp. | - | Good | - | Fleed box |
| 118 | GLF | Ply | 516229 | 6680826 | 28/04/2021 | - | - | - | Good | - | - |
| 119 | B1 | Ply | 516240 | 6680885 | 28/04/2021 | - | - | - | Good | - | - |
| 120 | SmP | Hardwood | 516266 | 6680758 | 28/04/2021 | Squirrel glider | - | - | Good | - | - |
| 121 | BTP | Metal | 516324 | 6680564 | 28/04/2021 | Sugar glider | Trichosurus spp. | - | Good | - | Climber |
| 122 | Cock_Owl | Ply | 516241 | 6680854 | 25/06/2021 | - | - | - | Good | - | - |
| 123 | Pos | Metal | 516241 | 6680854 | | - | Petaurid spp. | - | Good | - | - |
| 124 | GLF | Metal | 516083 | 6680903 | 28/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 125 | TC | Hardwood | 516070 | 6680914 | 28/04/2021 | - | - | - | Good | - | - |
| 126 | GLF | Metal | 516560 | 6680278 | 29/04/2021 | Squirrel glider | Petaurid spp. | Wasps nest | Good | - | - |
| 127 | Cock_Owl | Metal | 516588 | 6680243 | 29/04/2021 | - | - | - | Good | - | - |
| 128 | Pos | Metal | 516588 | 6680243 | | - | Petaurid spp. | - | Good | - | - |
| 129 | BTP | Ply | 516693 | 6680109 | 29/04/2021 | - | Old leaf | - | Good | - | - |
| 130 | SmP | Metal | 516708 | 6680092 | 29/04/2021 | - | - | - | Good | - | - |
| 131 | GLF | Ply | 516709 | 6679838 | 28/04/2021 | Sugar glider | Petaurid spp. | - | Good | - | - |
| 132 | BTP | Ply | 516515 | 6680068 | 28/04/2021 | - | Petaurid spp. | - | Good | - | - |
| 133 | TC | Hardwood | 516531 | 6680059 | 28/04/2021 | - | Antechinus spp. | - | Good | - | - |
| 134 | TC | Hardwood | 518260 | 6676929 | 22/04/2021 | - | - | - | Good | - | Climber |
| 2 | Pos | Ply | 517876 | 6674754 | 26/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 3 | GLF | Ply | 517881 | 6674744 | 26/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 4 | A | Ply | 517885 | 6674761 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 5 | Pos | Ply | 517690 | 6674899 | 26/11/2020 | Not inspected | Not inspected | Not inspected | Good | Box need replacing | Box burnt |
| 6 | GLF | Ply | 518093 | 6676192 | 25/11/2020 | Petaurid spp. | - | - | Good | - | - |
| 7 | BTP | Ply | 518081 | 6676202 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 8 | TC | Hardwood | 518087 | 6676214 | 25/11/2020 | Squirrel glider | - | - | Good | - | - |
| 9 | BTP | Ply | 518123 | 6676310 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 9.1 | Pos | Cyplas | 512446 | 6686049 | 13/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 9.2 | FTG | Cyplas | 512438 | 6686045 | 13/11/2020 | - | - | - | Good | - | - |
| 9.3 | GLF | Ply | 516083 | 6680753 | 25/11/2020 | - | Old leaf | - | Good | - | - |
| 10 | TC | Hardwood | 518119 | 6676322 | 25/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 10.1 | Pos | Hardwood | 512775 | 6685858 | 13/11/2020 | - | - | Old ant material | Good | - | - |
| 10.1 1 | Pos | Cyplas | 512827 | 6685956 | 13/11/2020 | - | - | - | Good | - | - |
| 10.1 2 | BTP | Ply | 512793 | 6685982 | 13/11/2020 | - | Antechinus spp. | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|------------------|-------------------------|------------------|-----------|--------------------|----------------------------|
| 10.2 | Cock_Owl | Ply | 512786 | 6685860 | 13/11/2020 | Not inspected | Not inspected | Not inspected | Good | - | Completely destroyed |
| 10.3 | B1 | Ply | 512760 | 6685876 | 13/11/2020 | - | - | - | Good | - | - |
| 10.4 | SmP | Ply | 512807 | 6685856 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 10.5 | GLF | Ply | 512852 | 6685768 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 10.6 | Pos | Cyplas | 512857 | 6685759 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 10.7 | Cock_Owl | Ply | 512857 | 6685783 | 13/11/2020 | - | Trichosurus spp. | - | Good | - | Climber |
| 10.8 | Pos | Hardwood | 512857 | 6685783 | 13/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 10.9 | GLF | Ply | 512834 | 6685946 | 13/11/2020 | Not inspected | Not inspected | Not inspected | Good | - | Completely destroyed |
| 11 | FTG | Ply | 518119 | 6676322 | 25/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 12 | Cock_Owl | Ply | 517941 | 6676221 | 26/11/2020 | - | Petaurid spp. | - | Good | - | Climber |
| 13 | A | Ply | 517936 | 6676229 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 14 | GLF | Ply | 517919 | 6676212 | 26/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 14.1 | SmP | Ply | 513202 | 6684061 | 25/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 14.2 | B1 | Ply | 513203 | 6684070 | 25/11/2020 | - | - | - | Good | - | - |
| 14.3 | FTG | Ply | 513207 | 6684055 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 14.4 | GLF | Ply | 513327 | 6684024 | 13/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 14.5 | BTP | Ply | 513331 | 6684022 | 13/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 14.6 | Pos | Cyplas | 513344 | 6684015 | 13/11/2020 | - | Trichosurus spp. | - | Good | - | Scat inside casuarina used |
| 15 | Pos | Ply | 517921 | 6676234 | 26/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 15.1 | GLF | Ply | 513478 | 6683473 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 15.2 | B1 | Ply | 513463 | 6683494 | 13/11/2020 | - | - | - | Good | - | - |
| 15.3 | FTG | Ply | 513457 | 6683489 | 13/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 16 | GLF | Ply | 517980 | 6676348 | 26/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 17 | B1 | Ply | 517824 | 6675620 | 26/11/2020 | - | - | - | Good | - | - |
| 18 | GLF | Ply | 517808 | 6675621 | 26/11/2020 | Not inspected | Not inspected | Not inspected | Good | Box need replacing | Box down |
| 19 | A | Ply | 517803 | 6675610 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 20 | FTG | Ply | 517794 | 6675595 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 21 | PO | Metal | 517765 | 6675548 | 26/11/2020 | - | - | - | Good | - | Climber box |
| 22 | Pos | Ply | 517765 | 6675548 | 26/11/2020 | - | - | - | Good | - | - |
| 23 | A | Metal | 517782 | 6675569 | 26/11/2020 | - | - | - | Good | - | - |
| 23.1 | GLF | Ply | 515397 | 6681176 | 13/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 23.2 | BTP | Ply | 515414 | 6681180 | 13/11/2020 | Petaurid spp. | - | - | Good | - | - |
| 24 | STQ | Ply | 517776 | 6675305 | 26/11/2020 | Not inspected | Not inspected | Not inspected | Good | - | Box missing |
| 25 | SmP | Hardwood | 517779 | 6675275 | 26/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 26 | STQ | Ply | 517923 | 6676177 | 26/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 26.1 | A | Ply | 517061 | 6679557 | 26/11/2020 | - | Antechinus spp. | - | Good | Mod deterioration | - |
| 26.2 | B1 | Cyplas | 517056 | 6679552 | 26/11/2020 | - | - | - | Good | - | - |
| 26.3 | GLF | Ply | 517060 | 6679581 | 26/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 26.4 | SmP | Ply | 517023 | 6679624 | 26/11/2020 | - | Petaurid spp. | - | Good | Mod deterioration | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|-------------------------|-------------------------|------------------|-------------------|--------------|-------------------------|
| 27 | GLF | Ply | 517821 | 6676108 | 26/11/2020 | - | Treecreeper spp. | - | Good | - | - |
| 28 | A | Ply | 518240 | 6677259 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 29 | | Ply | 518251 | 6677280 | 26/11/2020 | - | Acrobates spp. | - | Good | New wire | - |
| 30 | TC | Hardwood | 518243 | 6677263 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 30.1 | BTP | Ply | 517772 | 6677807 | 26/11/2020 | Not inspected | Not inspected | Not inspected | Good | Need new box | Box destroyed, termites |
| 30.2 | SmP | Ply | 517782 | 6677830 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 31 | A | Ply | 517871 | 6677774 | 26/11/2020 | - | Acrobates spp. | - | Good | Replace box | - |
| 31.1 | GLF | Ply | 518139 | 6677028 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 31.2 | FTG | Ply | 518116 | 6677030 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 31.3 | SmP | Ply | 517979 | 6677044 | 26/11/2020 | - | - | - | Good | - | Climber |
| 31.4 | B1 | Ply | 518023 | 6677025 | 26/11/2020 | - | - | - | Good | - | - |
| 31.5 | GLF | Ply | 518018 | 6677036 | 26/11/2020 | - | Petaurid spp. | - | Lid deterioration | - | - |
| 32 | A | Metal | 517861 | 6677766 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 33 | BTP | Metal | 517854 | 6677773 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 34 | BTP | Ply | 515547 | 6681787 | 27/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 34.1 | GLF | Ply | 517827 | 6675795 | 26/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 35 | | Ply | 515542 | 6681801 | 27/11/2020 | - | - | Mud Wasps nest | Good | - | - |
| 35.1 | GLF | Ply | 517727 | 6675166 | Not inspected | Not inspected | Not inspected | Not inspected | Not inspected | - | Box down |
| 36 | Pos | Ply | 515578 | 6681571 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 37 | FTG | Metal | 515578 | 6681571 | 27/11/2020 | - | - | - | Good | - | - |
| 39 | FTG | Ply | 515653 | 6681494 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 40 | TC | Metal | 515661 | 6681487 | 27/11/2020 | - | - | - | Good | - | - |
| 41 | BOO | Ply | 515563 | 6681824 | 27/11/2020 | Common brushtail possum | - | - | Good | - | Climber |
| 42 | Pos | Ply | 515556 | 6681839 | 27/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 43 | SmP | Metal | 515715 | 6681382 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 44 | BTP | Ply | 515714 | 6681373 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 45 | A | Metal | 515703 | 6681390 | 27/11/2020 | - | - | - | Good | - | - |
| 46 | Pos | Ply | 515739 | 6681313 | 27/11/2020 | - | - | - | Good | - | - |
| 47 | FTG | Ply | 515768 | 6681332 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 48 | TC | Hardwood | 515897 | 6681243 | 27/11/2020 | - | Old leaf | - | Good | - | - |
| 49 | GLF | Metal | 515885 | 6681239 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 50 | STQ | Metal | 516020 | 6681055 | 25/11/2020 | - | - | - | Good | - | - |
| 51 | Cock_Owl | Ply | 516004 | 6681090 | 25/11/2020 | - | - | - | Good | - | Climber |
| 52 | Pos | Metal | 516016 | 6681081 | 25/11/2020 | <i>Trichosurus</i> spp. | - | - | Good | - | Couldn't see head |
| 53 | Pos | Metal | 515654 | 6681131 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 54 | BTP | Metal | 515694 | 6681126 | 13/11/2020 | - | - | - | Good | - | - |
| 55 | SmP | Metal | 513856 | 6682742 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 56 | BTP | Metal | 513858 | 6682746 | 27/11/2020 | - | - | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|------------------|---------------------------|---------------|-----------|-------------|-----------|
| 57 | Pos | Ply | 513847 | 6682753 | 27/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 58 | BTP | Ply | 513905 | 6682673 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 59 | B1 | Ply | 513912 | 6682674 | 27/11/2020 | - | - | - | Good | - | - |
| 60 | FTG | Ply | 514001 | 6682604 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 61 | GLF | Metal | 514008 | 6682611 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 62 | FTG | Metal | 514207 | 6682629 | 27/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 63 | STQ | Ply | 514092 | 6682618 | 27/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 64 | GLF | Ply | 514081 | 6682626 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 65 | TC | Hardwood | 514091 | 6682603 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 66 | GLF | Ply | 517158 | 6679308 | 26/11/2020 | - | Scaly-breasted lorikeet | - | Good | - | - |
| 67 | FTG | Ply | 517161 | 6679270 | 26/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 68 | BTP | Ply | 517604 | 6678550 | 27/11/2020 | - | Squirrel glider | - | Good | - | - |
| 69 | FTG | Ply | 517587 | 6678544 | 27/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 70 | | Ply | 517608 | 6678541 | 27/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 71 | STQ | Metal | 517580 | 6678554 | 27/11/2020 | - | - | - | Good | - | - |
| 72 | A | Ply | 514209 | 6682626 | 27/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 73 | TC | Hardwood | 514203 | 6682630 | 27/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 74 | A | Metal | 514089 | 6682628 | 27/11/2020 | - | - | - | Good | - | - |
| 75 | B1 | Ply | 514452 | 6682565 | Not inspected | Not inspected | Not inspected | Not inspected | No access | No access | No access |
| 76 | TC | Hardwood | 514445 | 6682563 | Not inspected | Not inspected | Not inspected | Not inspected | No access | No access | No access |
| 77 | BTP | Metal | 514467 | 6682552 | Not inspected | Not inspected | Not inspected | Not inspected | No access | No access | No access |
| 78 | | Metal | 509931 | 6687485 | 11/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 79 | GLF | Ply | 509946 | 6687483 | 11/11/2020 | - | Squirrel glider | - | Good | - | - |
| 80 | TC | Hardwood | 509963 | 6687490 | 11/11/2020 | - | Old leaf | - | Good | - | - |
| 81 | STQ | Ply | 510124 | 6687688 | 13/11/2020 | - | - | - | Good | - | - |
| 82 | | Ply | 518268 | 6676963 | 13/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 82 | | Ply | 510125 | 6687647 | 26/11/2020 | - | Acrobates spp. | - | Good | - | - |
| 83 | B1 | Ply | 510929 | 6686893 | 25/11/2020 | - | - | - | Good | - | - |
| 84 | Cock_Owl | Ply | 510865 | 6686934 | 25/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 85 | Pos | Metal | 510869 | 6686928 | 25/11/2020 | - | - | - | Good | - | - |
| 86 | Cock_Owl | Metal | 513124 | 6685001 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 87 | Pos | Ply | 513114 | 6684978 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 88 | Cock_Owl | Ply | 513114 | 6684384 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 89 | Pos | Metal | 513114 | 6684384 | 25/11/2020 | - | Trichosurus spp. | - | Good | - | - |
| 90 | Pos | Metal | 513118 | 6684369 | 25/11/2020 | - | - | - | Good | - | - |
| 91 | BTP | Ply | 513115 | 6684358 | 25/11/2020 | - | - | - | Good | - | - |
| 92 | TC | Hardwood | 513134 | 6684516 | 25/11/2020 | - | Australian owlet nightjar | - | Good | - | Fled nest |
| 93 | GLF | Metal | 513122 | 6684524 | 25/11/2020 | - | - | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|----------|----------|----------|-----------|-----------------|-------------------------|-------------------------|------------------------|---------------|-------------|-----------|
| 94 | BTP | Metal | 513131 | 6684564 | 25/11/2020 | - | - | - | Good | - | - |
| 95 | BOO | Metal | 512990 | 6685583 | 13/11/2020 | - | - | - | Good | - | - |
| 96 | Pos | Ply | 512989 | 6685591 | 13/11/2020 | - | - | - | Good | - | - |
| 97 | B1 | Ply | 512090 | 6686250 | 25/11/2020 | - | - | - | Good | - | - |
| 98 | SmP | Hardwood | 513792 | 6683002 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 99 | B1 | Ply | 513799 | 6682968 | 27/11/2020 | - | - | - | Good | - | - |
| 100 | BTP | Ply | 513782 | 6682979 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 101 | FTG | Metal | 513771 | 6683004 | 27/11/2020 | - | Old leaf | - | Good | - | - |
| 102 | A | Ply | 513801 | 6682922 | 27/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 103 | BTP | Metal | 513812 | 6682917 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 105 | GLF | Metal | 513541 | 6683568 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 106 | A | Ply | 513537 | 6683578 | Not inspected | Not inspected | Not inspected | Not inspected | Not inspected | - | burnt |
| 107 | TC | Metal | 513519 | 6683596 | 13/11/2020 | - | - | - | Good | - | - |
| 108 | GLF | Ply | 513483 | 6683667 | Not inspected | Not inspected | Not inspected | Not inspected | Not inspected | - | burnt |
| 109 | BTP | Metal | 513486 | 6683659 | 13/11/2020 | - | - | Active paper wasp nest | Good | - | - |
| 110 | TC | Hardwood | 513570 | 6683735 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 111 | BOO | Ply | 513468 | 6683789 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 112 | Pos | Metal | 513468 | 6683789 | 13/11/2020 | - | - | - | Good | - | - |
| 113 | Pos | Ply | 513163 | 6683899 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 114 | TC | Hardwood | 510853 | 6686948 | 25/11/2020 | - | - | - | Good | - | - |
| 115 | STQ | Metal | 516236 | 6680819 | 25/11/2020 | - | - | - | Good | - | - |
| 116 | Pos | Ply | 516194 | 6680814 | 25/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 117 | A | Ply | 516225 | 6680820 | 25/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 118 | GLF | Ply | 516229 | 6680826 | 25/11/2020 | Squirrel glider | - | - | Good | - | Fleed box |
| 119 | B1 | Ply | 516240 | 6680885 | 25/11/2020 | Aboreal Ants | - | Active ants nest | Good | - | - |
| 120 | SmP | Hardwood | 516266 | 6680758 | 25/11/2020 | - | Old leaf | - | Good | - | - |
| 121 | BTP | Metal | 516324 | 6680564 | 25/11/2020 | - | Treecreeper spp. | - | Good | - | - |
| 122 | Cock_Owl | Ply | 516241 | 6680854 | 25/11/2020 | Common brushtail possum | - | - | Good | - | Climber |
| 123 | Pos | Metal | 516241 | 6680854 | 25/11/2020 | - | - | - | Good | - | Climber |
| 124 | GLF | Metal | 516083 | 6680903 | 25/11/2020 | - | - | - | Good | - | - |
| 125 | TC | Hardwood | 516070 | 6680914 | 25/11/2020 | - | Old leaf | - | Good | - | - |
| 126 | GLF | Metal | 516560 | 6680278 | 27/11/2020 | - | Antechinus spp. | - | Good | - | - |
| 127 | Cock_Owl | Metal | 516588 | 6680243 | 27/11/2020 | - | - | Wasps nest | Good | - | - |
| 128 | Pos | Metal | 516588 | 6680243 | 27/11/2020 | - | - | - | Good | - | - |
| 129 | BTP | Ply | 516693 | 6680109 | 27/11/2020 | - | Old leaf | - | Good | - | - |
| 130 | SmP | Metal | 516708 | 6680092 | 27/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 131 | GLF | Ply | 516709 | 6679838 | 13/11/2020 | Squirrel glider | - | - | Good | - | - |
| 132 | BTP | Ply | 516515 | 6680068 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |

| Box ID | Box | Material | Eastings | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintenance | Comments |
|--------|-----|----------|----------|-----------|-----------------|------------------|-------------------------|-------|-----------|-------------|----------|
| 133 | TC | Hardwood | 516531 | 6680059 | 13/11/2020 | - | Petaurid spp. | - | Good | - | - |
| 134 | TC | Hardwood | 518260 | 6676929 | 26/11/2020 | - | Antechinus spp. | - | Good | - | - |

Appendix B–Section 2 nest box monitoring data 2020-21.

Table B1: Section 2 (W2HC) autumn and spring nest box monitoring data 2020-2021.

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|---------|-----------|-----------------|------------------------|---------------------------|------------------|-----------|--------------|----------------------------------|
| 0 | Scansorial mammal | Plywood | 505169 | 6697284 | 21/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 0 | Possum | Plywood | 505219 | 6695277 | 23/04/2021 | Lace monitor | - | - | Good | N/A | - |
| 0 | Scansorial mammal | Plywood | 505314 | 6695169 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 0 | Scansorial mammal | Plywood | 505915 | 6693508 | 26/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 1 | Scansorial mammal | Plywood | 505035 | 6697588 | 21/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 2 | Scansorial mammal | Plywood | 505069 | 6697564 | 21/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 3 | Small glider | Plywood | 505067 | 6697540 | 21/04/2021 | Lace monitor | - | - | Good | N/A | - |
| 4 | Possum | Plywood | 505123 | 6697561 | 21/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 5 | Large parrot | Plywood | 505158 | 6697591 | 24/06/2021 | | - | - | Good | N/A | Climber/can use go pro difficult |
| 6 | Scansorial mammal | Plywood | 505203 | 6697632 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | - | Burnt |
| 7 | Large owl | Plywood | 505206 | 6697492 | 21/04/2021 | | - | - | Good | N/A | - |
| 8 | Small glider | Plywood | 505229 | 6697501 | 21/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 9 | Small parrot | Plywood | 505125 | 6697449 | 21/04/2021 | <i>Litoria peronii</i> | - | - | Good | N/A | - |
| 10 | Small glider | Plywood | 505158 | 6697398 | 21/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 11 | Scansorial mammal | Plywood | 505082 | 6697389 | 21/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 12 | Small parrot | Plywood | 505136 | 6697411 | 21/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 13 | Possum | Plywood | 505136 | 6697327 | 21/04/2021 | Lace monitor | - | - | Good | N/A | - |
| 14 | Small owl | Plywood | 505128 | 6697253 | 21/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 15 | Small parrot | Plywood | 505132 | 6697224 | 21/04/2021 | | - | - | Good | N/A | - |
| 16 | Scansorial mammal | Plywood | 505144 | 6697281 | 21/04/2021 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 17 | Possum | Plywood | 505154 | 6697291 | 21/04/2021 | | - | - | Good | N/A | - |
| 18 | Large owl | Plywood | 505151 | 6697152 | 24/06/2021 | | - | - | Good | N/A | Climber |
| 19 | Small parrot | Plywood | 505214 | 6697057 | 20/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 20 | Scansorial mammal | Plywood | 505231 | 6697008 | 20/04/2021 | | Old leaf | - | Good | N/A | - |
| 21 | Scansorial mammal | Plywood | 505250 | 6697012 | 20/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 22 | Large parrot | Plywood | 505238 | 6696966 | 24/06/2021 | | Trichosurus spp. | - | Good | N/A | Climber |
| 23 | Small glider | Plywood | 505295 | 6696886 | 20/04/2021 | | Old leaf | - | Good | N/A | - |
| 24 | Small parrot | Plywood | 505292 | 6696850 | 20/04/2021 | | - | - | Good | N/A | - |
| 25 | Scansorial mammal | Plywood | 505295 | 6696834 | 20/04/2021 | | Old leaf | - | Good | N/A | - |
| 26 | Small owl | Plywood | 505236 | 6696776 | 20/04/2021 | | - | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|-----------|-----------|-----------------|-------------------------|-------------------------|---------------------|-----------|---------------------------------------|----------|
| 27 | Small parrot | Plywood | 505254 | 6696762 | 20/04/2021 | | - | - | Good | N/A | - |
| 28 | Scansorial mammal | Plywood | 505264 | 6696624 | 20/04/2021 | | Acrobates spp. | - | Good | N/A | - |
| 29 | Small parrot | Plywood | 505280 | 6696605 | 20/04/2021 | | - | - | Good | N/A | - |
| 30 | Small parrot | Plywood | 505299 | 6696507 | 20/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 31 | Small parrot | Plywood | 505277 | 6696487 | 20/04/2021 | | Rodent spp. | - | Good | N/A | - |
| 32 | Small owl | Plywood | 505329 | 6696462 | 20/04/2021 | | - | - | Good | N/A | - |
| 33 | Scansorial mammal | Plywood | 505274 | 6696421 | 20/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 34 | Small glider | Plywood | 505299 | 6696394 | 20/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 35 | Small owl | Plywood | 505293 | 6696372 | 20/04/2021 | | - | - | Good | N/A | - |
| 36 | Small parrot | Plywood | 505264 | 6696302 | 20/04/2021 | | European Bees | Active euro beehive | Good | N/A | - |
| 37 | Possum | Plywood | 505312 | 6696046 | 20/04/2021 | | Old leaf | - | Good | N/A | - |
| 38 | Large parrot | Plywood | 505735 | 6694906 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 39 | Scansorial mammal | Plywood | 505540 | 6695383 | 26/04/2021 | | Old leaf | - | Good | N/A | - |
| 40 | Large owl | Plywood | 505527 | 6695268 | 24/06/2021 | | - | - | Good | Broken at hinge can repair next check | Climber |
| 41 | Scansorial mammal | Plywood | 505581 | 6695209 | 26/04/2021 | | Acrobates spp. | - | Good | N/A | - |
| 42 | Possum | Plywood | 505591 | 6695182 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 43 | Scansorial mammal | Plywood | 505624 | 6695165 | 26/04/2021 | | White-throated nightjar | - | Good | N/A | - |
| 44 | Scansorial mammal | Plywood | 505694 | 6695111 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 45 | Small parrot | Plywood | 505695 | 6695049 | 26/04/2021 | Lace monitor | - | - | Good | N/A | - |
| 46 | Scansorial mammal | Plywood | 505786 | 6694953 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 47 | Large glider | Plywood | 505805 | 6695009 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 48 | Scansorial mammal | Plywood | 505844 | 6694908 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 49 | Large glider | Plywood | 505744 | 6694872 | 26/04/2021 | | - | - | Good | N/A | - |
| 50 | Scansorial mammal | Plywood | 505862 | 6694871 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 51 | Small parrot | Plywood | 505876 | 6693657 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 53 | Large owl | Plywood | 505933 | 6693740 | 25/06/2021 | Common brushtail possum | - | - | Good | Broken at hinge can repair next check | Climber |
| 54 | Small parrot | Plywood | 505964 | 6693770 | 26/04/2021 | | - | - | Good | N/A | - |
| 55 | Small parrot | Plywood | 505931 | 6693767 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 56 | Scansorial mammal | Plywood | 505835 | 6693707 | 21/04/2021 | | Acrobates spp. | - | Good | N/A | - |
| 57 | Large parrot | Plywood | 505973 | 6693663 | 21/04/2021 | | Trichosurus spp. | - | Fair | N/A | - |
| 58 | Small parrot | Plywood | 505992 | 6693660 | 21/04/2021 | | - | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|-----------|-----------|-----------------|------------------|-------------------------|----------------|-------------------------------|-------------------------------|---|
| 59 | Small owl | Plywood | 505973 | 6693707 | 26/04/2021 | | - | - | Good | N/A | - |
| 60 | Scansorial mammal | Plywood | 505996 | 6693719 | 26/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 61 | Large glider | Cyplas | 506025 | 6693689 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Burnt. Newly installed box moved south west need to change co-ordinates |
| 62 | Small owl | Plywood | 505968 | 6693615 | 26/04/2021 | | - | - | Good | N/A | - |
| 63 | Scansorial mammal | Plywood | 505934 | 6693611 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 64 | Large parrot | Plywood | 505995 | 6693591 | 11/11/2020 | Lace monitor | - | - | Good | N/A | - |
| 65 | Scansorial mammal | Plywood | 505938 | 6693576 | 26/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 66 | Large parrot | Plywood | 505891 | 6693543 | 26/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 67 | Small owl | Plywood | 505919 | 6693450 | 26/04/2021 | | - | - | Good | N/A | - |
| 68 | Scansorial mammal | Plywood | 505977 | 6693471 | 21/04/2021 | | Antechinus spp. | - | Hinges and lid need replacing | Hinges and lid need replacing | - |
| 69 | Small owl | Plywood | 505973 | 6693487 | 26/04/2021 | | - | - | Good | N/A | - |
| 70 | Scansorial mammal | Plywood | 505982 | 6693436 | 26/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 71 | Large parrot | Plywood | 506037 | 6693400 | 26/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 72 | Scansorial mammal | Plywood | 506013 | 6693366 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 73 | Scansorial mammal | Plywood | 505972 | 6693355 | 26/04/2021 | | - | Old wasps nest | Good | N/A | - |
| 74 | Scansorial mammal | Plywood | 505947 | 6693348 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 75 | Large owl | Plywood | 505950 | 6693301 | 24/06/2021 | | - | - | Good | N/A | Climber |
| 76 | Small parrot | Plywood | 505989 | 6693258 | 26/04/2021 | | - | - | Good | N/A | - |
| 77 | Small parrot | Plywood | 505983 | 6693275 | 26/04/2021 | | - | - | Good | N/A | - |
| 78 | Possum | Plywood | 506044 | 6692929 | 27/04/2021 | | - | - | Good | N/A | - |
| 79 | Scansorial mammal | Plywood | 506027 | 6692933 | 27/04/2021 | | - | - | Good | N/A | - |
| 80 | Scansorial mammal | Plywood | 506019 | 6693004 | 27/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 81 | Large owl | Plywood | 506067 | 6692982 | 27/04/2021 | | - | - | Good | N/A | - |
| 82 | Scansorial mammal | Plywood | 506107 | 6692939 | 27/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 83 | Scansorial mammal | Plywood | 506085 | 6692884 | 27/04/2021 | | Treecreeper spp. | - | Good | N/A | - |
| 84 | Large parrot | Plywood | 506072 | 6692901 | 27/04/2021 | | - | - | Good | N/A | - |
| 85 | Scansorial mammal | Plywood | 506060 | 6692891 | 27/04/2021 | | - | - | Good | N/A | - |
| 86 | Scansorial mammal | Aluminium | 506124 | 6692886 | 27/04/2021 | | - | - | Good | N/A | - |
| 87 | Scansorial mammal | Plywood | 506163 | 6692938 | 27/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 88 | Scansorial mammal | Aluminium | 506145 | 6692856 | | Not inspected | Not inspected | Not inspected | - | - | Box on ground, box completely broken, need new box |
| 89 | Scansorial mammal | Aluminium | 506168 | 6692833 | 27/04/2021 | | - | Old wasps nest | Good | N/A | - |
| 90 | Scansorial mammal | Aluminium | 506129 | 6692821 | 27/04/2021 | | - | - | Good | N/A | - |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|---------|-----------|-----------------|-----------------------|-------------------------|----------------|-----------|---------------------------------------|---|
| 91 | Large parrot | Aluminium | 506097 | 6692803 | 27/04/2021 | Yellow-bellied glider | - | - | Good | N/A | - |
| 92 | Scansorial mammal | Aluminium | 506156 | 6692776 | 27/04/2021 | | - | - | Good | N/A | - |
| 93 | Scansorial mammal | Aluminium | 506178 | 6692803 | 27/04/2021 | | - | - | Good | N/A | - |
| 94 | Possum | Aluminium | 506193 | 6692752 | 27/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 95 | Scansorial mammal | Aluminium | 506203 | 6692717 | 27/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 96 | Possum | Aluminium | 506174 | 6692724 | 27/04/2021 | | - | Old wasps nest | Good | N/A | - |
| 97 | Large parrot | Aluminium | 506232 | 6692758 | 24/06/2021 | | Yellow-bellied glider | - | Good | N/A | Climber |
| 98 | Scansorial mammal | Aluminium | 506252 | 6692742 | 27/04/2021 | | - | - | Good | N/A | - |
| 99 | Small parrot | Aluminium | 506251 | 6692704 | 27/04/2021 | | - | Old wasp nest | Good | N/A | - |
| 100 | Scansorial mammal | Aluminium | 506209 | 6692659 | 27/04/2021 | | - | - | Good | N/A | velcroe sticky removed used a climber/ Wont require in future |
| 101 | Scansorial mammal | Aluminium | 506197 | 6692614 | 27/04/2021 | | - | - | Good | N/A | - |
| 102 | Large owl | Aluminium | 506264 | 6692609 | 24/06/2021 | | - | - | Good | Broken at hinge can repair next check | Climber |
| 103 | Small owl | Plywood | 506851 | 6690166 | 27/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 104 | Small glider | Plywood | 506887 | 6690153 | 27/04/2021 | | - | - | Good | N/A | Large wood shavings |
| 105 | Large parrot | Aluminium | 506881 | 6690152 | 27/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 106 | Small parrot | Aluminium | 506865 | 6690156 | 27/04/2021 | | - | - | Good | N/A | - |
| 107 | Small parrot | Aluminium | 506863 | 6690148 | 27/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 108 | Small glider | Plywood | 506903 | 6690138 | 27/04/2021 | | - | - | Good | N/A | Large wood shavings |
| 109 | Large parrot | Plywood | 506895 | 6690132 | 27/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 110 | Scansorial mammal | Plywood | 506858 | 6690177 | 27/04/2021 | | Antechinus spp. | - | Good | N/A | Small mammal not aluminium possum |
| 118 | Large glider | Plywood | 509145 | 6688158 | 22/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 119 | Small parrot | Plywood | 509171 | 6688175 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 120 | Scansorial mammal | Plywood | 509121 | 6688169 | 22/04/2021 | Squirrel glider | - | - | Good | N/A | - |
| 121 | Scansorial mammal | Plywood | 509083 | 6688161 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 122 | Small owl | Plywood | 509065 | 6688224 | 22/04/2021 | | Old leaf | - | Good | N/A | - |
| 123 | Large parrot | Plywood | 508797 | 6688418 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 124 | Scansorial mammal | Plywood | 508703 | 6688453 | 22/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 125 | Small parrot | Plywood | 508611 | 6688488 | 22/04/2021 | | - | - | Good | N/A | - |
| 126 | Large owl | Plywood | 508591 | 6688566 | 22/04/2021 | | - | - | Good | N/A | - |
| 127 | Large owl | Plywood | 508376 | 6689023 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | Large owl box |
| 128 | Possum | Plywood | 508393 | 6689003 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 129 | Scansorial | Plywood | 508409 | 6688986 | 22/04/2021 | Petaurid | - | - | - | No | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|-----------|-----------|-----------------|-------------------------|-------------------------|-------------------|------------|-------------------|---|
| | mammal | | | | | spp. | | | | | |
| 130 | Scansorial mammal | Plywood | 508431 | 6688944 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 131 | Small owl | Plywood | 508519 | 6688874 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 132 | Small parrot | Plywood | 508544 | 6688843 | 22/04/2021 | Common brushtail possum | - | - | Good | N/A | - |
| 133 | Small glider | Plywood | 508621 | 6688848 | 22/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 134 | Large owl | Plywood | 505226 | 6695187 | 23/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 135 | Scansorial mammal | Plywood | 505267 | 6695115 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 136 | Small glider | Plywood | 505315 | 6695056 | 23/04/2021 | | Antechinus spp. | - | Good | N/A | Hole 3-4cm, not large glider maybe small mamm or glider pic 1126 |
| 137 | Scansorial mammal | Plywood | 505362 | 6695039 | 23/04/2021 | | - | - | Good | N/A | Hole quite small approx. 5cm, not possum? Pic 1103 20/4 on my phone |
| 138 | Scansorial mammal | Plywood | 505384 | 6695091 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 139 | Scansorial mammal | Plywood | 505367 | 6695069 | 23/04/2021 | | - | - | Good | N/A | Cuts at front, parrot box? 5cm, pic 1114 |
| 140 | Scansorial mammal | Plywood | 505342 | 6695070 | 23/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 141 | Large glider | Plywood | 505402 | 6695026 | 23/04/2021 | | Petaurid spp. | - | Lid rotten | Need new lid | Actually rear entry Large glider |
| 142 | Small glider | Plywood | 505379 | 6694992 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 143 | Scansorial mammal | Plywood | 505453 | 6694971 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 144 | Scansorial mammal | Plywood | 505346 | 6695108 | 23/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 145 | Small parrot | Plywood | 505217 | 6695152 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | Not aluminium |
| 146 | Large parrot | Plywood | 505188 | 6695245 | 23/04/2021 | | - | - | Good | N/A | - |
| 147 | Small parrot | Aluminium | 505241 | 6695250 | 23/04/2021 | | - | - | Good | N/A | - |
| 148 | Small parrot | Aluminium | 505162 | 6695221 | 23/04/2021 | Lace monitor | - | - | Good | N/A | - |
| 149 | Small owl | Aluminium | 505148 | 6695284 | 23/04/2021 | | - | Old mud wasp nest | Good | N/A | Smae as 152 also aluminium |
| 150 | Scansorial mammal | Aluminium | 505177 | 6695299 | 23/04/2021 | | - | - | Good | N/A | - |
| 151 | Small parrot | Aluminium | 505183 | 6695339 | 23/04/2021 | | - | Mud wasp nest | Good | N/A | - |
| 152 | Possum | Aluminium | 505178 | 6695360 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | Hole about 7cm aluminium,1309 |
| 153 | Small owl | Plywood | 505156 | 6695370 | 23/04/2021 | | - | - | Good | N/A | Front entrance big box |
| 154 | Large parrot | Plywood | 505111 | 6695403 | 23/04/2021 | | - | - | Good | N/A | - |
| 155 | Scansorial mammal | Plywood | 505144 | 6695426 | 23/04/2021 | | - | - | Good | N/A | - |
| 156 | Scansorial mammal | Plywood | 505192 | 6695431 | 23/04/2021 | | - | - | Good | N/A | Cuts at front, 5cm |
| 157 | Scansorial mammal | Cyplas | 505043 | 6696232 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | New box installed |
| 158 | Scansorial mammal | Cyplas | 505058 | 6696270 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Box burnt |
| 159 | Scansorial mammal | Plywood | 505034 | 6696119 | 23/04/2021 | | Acrobates | - | Good | N/A | - |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|---------|-----------|-----------------|-------------------------|---------------------------|------------------|-----------|-------------------|--|
| | mammal | | | | | | spp. | | | | |
| 160 | Scansorial mammal | Plywood | 505044 | 6696111 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 161 | Scansorial mammal | Plywood | 505024 | 6696073 | 12/11/2020 | | Acrobates spp. | - | Good | N/A | - |
| 162 | Large owl | Plywood | 505085 | 6695991 | 24/06/2021 | Common brushtail possum | - | - | Good | N/A | Climber |
| 163 | Scansorial mammal | Plywood | 505053 | 6695935 | 23/04/2021 | | - | Old ant material | Good | N/A | - |
| 164 | Small glider | Plywood | 505053 | 6697656 | 21/04/2021 | | - | - | Good | N/A | - |
| 165 | Small owl | Plywood | 505000 | 6697649 | 21/04/2021 | | - | - | Good | N/A | - |
| 166 | Large parrot | Plywood | 504992 | 6697692 | Not inspected | | - | Not inspected | Unknown | - | Could not find on burn inspection may be wrong co-ordinates or different box |
| 167 | Small owl | Plywood | 505031 | 6697691 | 21/04/2021 | Common brushtail possum | - | - | Good | N/A | plastic melted on wire after fire |
| 168 | Small parrot | Plywood | 505035 | 6697714 | 21/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 169 | Microbat | Plywood | 505013 | 6697718 | 21/04/2021 | | - | - | Good | N/A | - |
| 170 | Microbat | Plywood | 504951 | 6697709 | 21/04/2021 | | - | - | Good | N/A | - |
| 171 | Small glider | Plywood | 504977 | 6697706 | 21/04/2021 | | - | - | - | - | - |
| 172 | Large owl | Cyplas | 504929 | 6697723 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Fleed, Burnt following inventory check |
| 173 | Large parrot | Plywood | 504961 | 6697663 | 21/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 174 | Large parrot | Plywood | 504950 | 6697619 | 21/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 175 | Small parrot | Plywood | 504944 | 6697677 | 21/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 176 | Small glider | Plywood | 504982 | 6697689 | 21/04/2021 | | - | - | Good | N/A | - |
| 177 | Small parrot | Plywood | 504876 | 6697720 | 21/04/2021 | | - | Ant material | Good | N/A | - |
| 178 | Small owl | Plywood | 504856 | 6697686 | 21/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 179 | Small owl | Plywood | 504916 | 6697694 | 21/04/2021 | Common brushtail possum | - | - | Good | N/A | - |
| 180 | Small owl | Plywood | 505117 | 6697642 | 21/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 181 | Small parrot | Plywood | 505007 | 6697644 | 21/04/2021 | | Petaurid spp. | - | Good | N/A | Actually Approx 8cm SmP box |
| 182 | Small glider | Plywood | 505786 | 6694325 | 26/04/2021 | | - | - | Good | N/A | - |
| 183 | Small owl | Plywood | 505799 | 6694301 | 26/04/2021 | | Australian owlet nightjar | - | Good | N/A | - |
| 184 | Small glider | Plywood | 505804 | 6694212 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 185 | Small glider | Plywood | 505810 | 6694249 | 26/04/2021 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 186 | Scansorial mammal | Plywood | 505788 | 6694293 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 187 | Scansorial mammal | Plywood | 505815 | 6694253 | 26/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 188 | Large parrot | Plywood | 505782 | 6694320 | 26/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 189 | Scansorial mammal | Plywood | 505831 | 6694324 | 26/04/2021 | | Acrobates spp. | - | Good | N/A | - |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|---------|-----------|-----------------|---------------------------|-------------------------|------------------|-------------|-------------------------|-------------------------------------|
| 190 | Scansorial mammal | Plywood | 505801 | 6694366 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 191 | Scansorial mammal | Plywood | 505815 | 6694354 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 192 | Small owl | Plywood | 505825 | 6694362 | 26/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 193 | Possum | Plywood | 505854 | 6694365 | 26/04/2021 | | - | - | Good | N/A | - |
| 194 | Scansorial mammal | Plywood | 505862 | 6694368 | 26/04/2021 | | - | - | Good | N/A | - |
| 195 | Scansorial mammal | Plywood | 505849 | 6694374 | 26/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 196 | Scansorial mammal | Plywood | 505834 | 6694381 | 26/04/2021 | | Old leaf | - | Good | N/A | - |
| 197 | Possum | Plywood | 508490 | 6688936 | 22/04/2021 | Common brushtail possum | - | - | Good | N/A | - |
| 198 | Small glider | Plywood | 508496 | 6688903 | 22/04/2021 | | - | - | Good | N/A | Wood chips |
| 199 | Small owl | Plywood | 508474 | 6688919 | 22/04/2021 | Aboreal Ants | - | Active ants nest | Lid missing | Need new lid and hinges | - |
| 200 | Scansorial mammal | Plywood | 508499 | 6688888 | 22/04/2021 | Aboreal Ants | - | Active ants | Good | N/A | - |
| 201 | Microbat | Plywood | 508502 | 6688901 | 22/04/2021 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 202 | Scansorial mammal | Plywood | 508461 | 6688935 | 22/04/2021 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 203 | Scansorial mammal | Plywood | 508528 | 6688898 | 22/04/2021 | Squirrel glider | - | - | Good | N/A | - |
| 204 | Large parrot | Plywood | 504966 | 6697070 | 23/04/2021 | | - | - | Good | N/A | - |
| 205 | Large parrot | Plywood | 504946 | 6697027 | 23/04/2021 | | - | - | Good | N/A | - |
| 206 | Possum | Plywood | 504967 | 6697041 | 23/04/2021 | | - | - | Good | N/A | Possum box, large opening |
| 207 | Scansorial mammal | Plywood | 504993 | 6696970 | 23/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 208 | Scansorial mammal | Cyplas | 504986 | 6696928 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Burnt |
| 209 | Microbat | Plywood | 504949 | 6696994 | 23/04/2021 | | - | - | Good | N/A | - |
| 210 | Small glider | Cyplas | 504991 | 6697016 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Burnt |
| 211 | Small glider | Plywood | 504996 | 6697063 | 23/04/2021 | | - | - | Good | N/A | - |
| 212 | Scansorial mammal | Cyplas | 504992 | 6697081 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Cant find pr burnt |
| 213 | Possum | Plywood | 504992 | 6697062 | 23/04/2021 | | - | - | Good | N/A | - |
| 214 | Scansorial mammal | Plywood | 504972 | 6697062 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 215 | Small parrot | Plywood | 504959 | 6697049 | 23/04/2021 | | - | - | Good | N/A | - |
| 216 | Small parrot | Aluminium | 504880 | 6696955 | 23/04/2021 | | - | - | Good | N/A | Co-ordinates changed 504920.6697115 |
| 217 | Microbat | Plywood | 504920 | 6697107 | 23/04/2021 | | Microbat spp. | - | Good | N/A | - |
| 218 | Small parrot | Plywood | 504956 | 6697150 | 23/04/2021 | Australian owlet nightjar | - | - | Good | N/A | - |
| 219 | Small owl | Plywood | 505630 | 6693987 | 23/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 220 | Small glider | Plywood | 505648 | 6693962 | 23/04/2021 | | - | - | Good | N/A | Big wood chips |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|---------|-----------|-----------------|-------------------------|-------------------------|------------------|-----------|-------------------|--|
| 221 | Scansorial mammal | Plywood | 505623 | 6693948 | 23/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 222 | Scansorial mammal | Plywood | 505618 | 6693955 | Not inspected | | - | Not inspected | Severe | - | - |
| 223 | Microbat | Plywood | 505616 | 6693994 | 23/04/2021 | | - | - | Good | N/A | - |
| 224 | Large parrot | Plywood | 505607 | 6694041 | 23/04/2021 | | - | - | Good | N/A | - |
| 225 | Small parrot | Plywood | 504975 | 6697139 | 23/04/2021 | | - | - | Good | N/A | - |
| 226 | Small glider | Plywood | 504933 | 6697175 | 23/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 227 | Small glider | Plywood | 504959 | 6697170 | 23/04/2021 | | - | - | Good | N/A | Bark shavings |
| 228 | Scansorial mammal | Plywood | 504935 | 6697187 | 23/04/2021 | | - | - | Good | N/A | - |
| 229 | Scansorial mammal | Cyplas | 504937 | 6697214 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Box w small as entrance not small mammal, Burnt after inspection |
| 230 | Possum | Cyplas | 504942 | 6697234 | Not inspected | Not inspected | Not inspected | Not inspected | Severe | New Box installed | Burnt after inspection |
| 231 | Possum | Plywood | 504917 | 6697226 | 23/04/2021 | | - | - | Good | N/A | - |
| 232 | Possum | Plywood | 504896 | 6697256 | 23/04/2021 | | - | - | Good | N/A | - |
| 233 | Scansorial mammal | Plywood | 504893 | 6697200 | 23/04/2021 | Common brushtail possum | - | - | Good | N/A | - |
| 234 | Large parrot | Plywood | 509559 | 6687985 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 235 | Small owl | Plywood | 509540 | 6688009 | 22/04/2021 | Common brushtail possum | - | - | Good | N/A | - |
| 236 | Possum | Plywood | 509551 | 6687973 | 22/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 237 | Possum | Plywood | 509579 | 6687921 | 22/04/2021 | | - | - | Good | N/A | Wood shavings |
| 238 | Scansorial mammal | Plywood | 509644 | 6687879 | 22/04/2021 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 239 | Large parrot | Plywood | 509632 | 6687863 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 240 | Scansorial mammal | Plywood | 509641 | 6687851 | 22/04/2021 | | Petaurid spp. | - | Good | N/A | - |
| 241 | Large parrot | Plywood | 509661 | 6687785 | 25/06/2021 | | Trichosurus spp. | - | Good | N/A | Climber |
| 242 | Small owl | Plywood | 509683 | 6687810 | 22/04/2021 | | Trichosurus spp. | - | Good | N/A | - |
| 243 | Possum | Plywood | 509796 | 6687726 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 244 | Possum | Plywood | 509906 | 6687661 | 22/04/2021 | | - | - | Good | N/A | Wood shavings |
| 255 | Small owl | Plywood | 509922 | 6687584 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 256 | Small glider | Plywood | 510006 | 6687555 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | Wood shavings |
| 257 | Scansorial mammal | Plywood | 509977 | 6687558 | 22/04/2021 | | Old leaf | - | Good | N/A | - |
| 258 | Scansorial mammal | Plywood | 510021 | 6687514 | 22/04/2021 | | Acrobates spp. | - | Good | N/A | - |
| 259 | Scansorial mammal | Plywood | 510020 | 6687516 | 22/04/2021 | | - | Old euro beehive | Good | N/A | - |
| 260 | Scansorial mammal | Plywood | 510027 | 6687506 | 22/04/2021 | | Antechinus spp. | - | Good | N/A | - |
| 261 | Scansorial mammal | Plywood | 510006 | 6687555 | 22/04/2021 | | Australian owl nightjar | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|-----------|-----------|-----------------|---------------------------|---------------------------|------------------|-----------|--------------|--------------------|
| 262 | Scansorial mammal | Plywood | 509909 | 6687621 | 22/04/2021 | | - | Old ant material | Good | N/A | - |
| 263 | Scansorial mammal | Plywood | 509904 | 6687619 | 22/04/2021 | | Treecreeper spp. | - | Good | N/A | - |
| 240 A | Microbat | Cyplas | 504785 | 6697495 | 22/04/2021 | | - | - | - | - | Actually a bat box |
| 345 | Scansorial mammal | Cyplas | 504783 | 6697492 | 22/04/2021 | | - | - | - | - | - |
| 353 | Small parrot | Cyplas | 504791 | 6697479 | Not inspected | | - | - | - | - | - |
| 0 | Scansorial mammal | Plywood | 505169 | 6697284 | 9/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 0 | Possum | Plywood | 505915 | 6693508 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 0 | Scansorial mammal | Plywood | 505314 | 6695169 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 0 | Scansorial mammal | Plywood | 505219 | 6695277 | 12/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 1 | Scansorial mammal | Plywood | 505035 | 6697588 | 9/11/2020 | | Australian owlet nightjar | - | Good | N/A | - |
| 2 | Scansorial mammal | Plywood | 505069 | 6697564 | 9/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 3 | Small glider | Plywood | 505067 | 6697540 | 9/11/2020 | | - | Old ant nest | Good | N/A | - |
| 4 | Possum | Plywood | 505123 | 6697561 | 9/11/2020 | | Old leaf | - | Good | N/A | - |
| 5 | Large parrot | Plywood | 505158 | 6697591 | 9/11/2020 | | - | - | Good | N/A | - |
| 6 | Scansorial mammal | Plywood | 505203 | 6697632 | 9/11/2020 | | Acrobates spp. | - | Good | N/A | - |
| 7 | Large owl | Plywood | 505206 | 6697492 | 9/11/2020 | | - | - | Good | N/A | - |
| 8 | Small glider | Plywood | 505229 | 6697501 | 9/11/2020 | Australian owlet nightjar | - | - | Good | N/A | - |
| 9 | Small parrot | Plywood | 505125 | 6697449 | 9/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 10 | Small glider | Plywood | 505158 | 6697398 | 9/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 11 | Scansorial mammal | Plywood | 505082 | 6697389 | 9/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 12 | Small parrot | Plywood | 505136 | 6697411 | 9/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 13 | Possum | Plywood | 505136 | 6697327 | 9/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 14 | Small owl | Plywood | 505128 | 6697253 | 9/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 15 | Small parrot | Plywood | 505132 | 6697224 | 9/11/2020 | | - | - | Good | N/A | - |
| 16 | Scansorial mammal | Plywood | 505144 | 6697281 | 9/11/2020 | | - | - | Good | N/A | - |
| 17 | Possum | Plywood | 505154 | 6697291 | 9/11/2020 | | Bird spp. | - | Good | N/A | - |
| 18 | Large owl | Plywood | 505151 | 6697152 | 10/11/2020 | | - | - | Good | N/A | Climber |
| 19 | Small parrot | Plywood | 505214 | 6697057 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 20 | Scansorial mammal | Plywood | 505231 | 6697008 | 10/11/2020 | Australian owlet nightjar | - | - | Good | N/A | - |
| 21 | Scansorial mammal | Plywood | 505250 | 6697012 | 10/11/2020 | | Old leaf | - | Good | N/A | - |
| 22 | Large parrot | Plywood | 505238 | 6696966 | 10/11/2020 | | Trichosurus spp. | - | Good | N/A | Climber |
| 23 | Small glider | Plywood | 505295 | 6696886 | 10/11/2020 | | Old leaf | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|-----------|-----------|-----------------|---------------------------|-------------------------|-------|-----------|--------------|----------|
| 24 | Small parrot | Plywood | 505292 | 6696850 | 10/11/2020 | | - | - | Good | N/A | - |
| 25 | Scansorial mammal | Plywood | 505295 | 6696834 | 10/11/2020 | | Acrobates spp. | - | Good | N/A | - |
| 26 | Small owl | Plywood | 505236 | 6696776 | 10/11/2020 | | - | - | Good | N/A | - |
| 27 | Small parrot | Plywood | 505254 | 6696762 | 10/11/2020 | | - | - | Good | N/A | - |
| 28 | Scansorial mammal | Plywood | 505264 | 6696624 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 29 | Small parrot | Plywood | 505280 | 6696605 | 10/11/2020 | | - | - | Good | N/A | - |
| 30 | Small parrot | Plywood | 505299 | 6696507 | 10/11/2020 | | Old leaf | - | Good | N/A | - |
| 31 | Small parrot | Plywood | 505277 | 6696487 | 10/11/2020 | | - | - | Good | N/A | - |
| 32 | Small owl | Plywood | 505329 | 6696462 | 10/11/2020 | | - | - | Good | N/A | - |
| 33 | Scansorial mammal | Plywood | 505274 | 6696421 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 34 | Small glider | Plywood | 505299 | 6696394 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 35 | Small owl | Plywood | 505293 | 6696372 | 10/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 36 | Small parrot | Plywood | 505264 | 6696302 | 10/11/2020 | | - | - | Good | N/A | - |
| 37 | Possum | Plywood | 505312 | 6696046 | 10/11/2020 | | Old leaf | - | Good | N/A | - |
| 38 | Large parrot | Plywood | 505735 | 6694906 | 10/11/2020 | | - | - | Good | N/A | - |
| 39 | Scansorial mammal | Plywood | 505540 | 6695383 | 10/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 40 | Large owl | Plywood | 505527 | 6695268 | 10/11/2020 | | - | - | Good | N/A | Climber |
| 41 | Scansorial mammal | Plywood | 505581 | 6695209 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 42 | Possum | Plywood | 505591 | 6695182 | 10/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 43 | Scansorial mammal | Plywood | 505624 | 6695165 | 10/11/2020 | | White-throated nightjar | - | Good | N/A | - |
| 44 | Scansorial mammal | Plywood | 505694 | 6695111 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 45 | Small parrot | Plywood | 505695 | 6695049 | 10/11/2020 | Australian owlet nightjar | - | - | Good | N/A | - |
| 46 | Scansorial mammal | Plywood | 505786 | 6694953 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 47 | Large glider | Plywood | 505805 | 6695009 | 10/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 48 | Scansorial mammal | Plywood | 505844 | 6694908 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 49 | Large glider | Plywood | 505744 | 6694872 | 10/11/2020 | | - | - | Good | N/A | - |
| 50 | Scansorial mammal | Plywood | 505862 | 6694871 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 51 | Small parrot | Plywood | 505876 | 6693657 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 53 | Large owl | Plywood | 505933 | 6693740 | 11/11/2020 | Common brushtail possum | - | - | Good | N/A | Climber |
| 54 | Small parrot | Plywood | 505964 | 6693770 | 11/11/2020 | | - | - | Good | N/A | - |
| 55 | Small parrot | Plywood | 505931 | 6693767 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 56 | Scansorial mammal | Plywood | 505835 | 6693707 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|-----------|-----------|-----------------|-------------------------|-------------------------|----------------|-------------------------------|-------------------------------|--|
| 57 | Large parrot | Plywood | 505973 | 6693663 | 10/11/2020 | | Trichosurus spp. | - | Fair | N/A | Tree grown into lid |
| 58 | Small parrot | Plywood | 505992 | 6693660 | 11/11/2020 | | - | - | Good | N/A | - |
| 59 | Small owl | Plywood | 505973 | 6693707 | 11/11/2020 | | - | - | Good | N/A | Large glider box front opening box |
| 60 | Scansorial mammal | Plywood | 505996 | 6693719 | 11/11/2020 | | - | - | Good | N/A | - |
| 61 | Large glider | Cyplas | 506025 | 6693689 | 11/11/2020 | | - | - | Good | N/A | Burnt |
| 62 | Small owl | Plywood | 505968 | 6693615 | 11/11/2020 | | - | - | Good | N/A | - |
| 63 | Scansorial mammal | Plywood | 505934 | 6693611 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 64 | Large parrot | Plywood | 505995 | 6693591 | 11/11/2020 | | - | - | Good | N/A | - |
| 65 | Scansorial mammal | Plywood | 505938 | 6693576 | 11/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 66 | Large parrot | Plywood | 505891 | 6693543 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 67 | Small owl | Plywood | 505919 | 6693450 | 11/11/2020 | | - | - | Good | N/A | - |
| 68 | Scansorial mammal | Plywood | 505977 | 6693471 | 11/11/2020 | | Antechinus spp. | - | Hinges and lid need replacing | Hinges and lid need replacing | - |
| 69 | Small owl | Plywood | 505973 | 6693487 | 11/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| nn | Scansorial mammal | Plywood | 505982 | 6693436 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 71 | Large parrot | Plywood | 506037 | 6693400 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 72 | Scansorial mammal | Plywood | 506013 | 6693366 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 73 | Scansorial mammal | Plywood | 505972 | 6693355 | 11/11/2020 | | - | Old wasps nest | Good | N/A | - |
| 74 | Scansorial mammal | Plywood | 505947 | 6693348 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 75 | Large owl | Plywood | 505950 | 6693301 | 11/11/2020 | | - | - | Good | N/A | Climber |
| 76 | Small parrot | Plywood | 505989 | 6693258 | 11/11/2020 | | - | - | Good | N/A | - |
| 77 | Small parrot | Plywood | 505983 | 6693275 | 11/11/2020 | | - | - | Good | N/A | - |
| 78 | Possum | Plywood | 506044 | 6692929 | 11/11/2020 | | - | - | Good | N/A | - |
| 79 | Scansorial mammal | Plywood | 506027 | 6692933 | 11/11/2020 | | - | - | Good | N/A | - |
| 80 | Scansorial mammal | Plywood | 506019 | 6693004 | 11/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 81 | Large owl | Plywood | 506067 | 6692982 | 11/11/2020 | | - | - | Good | N/A | - |
| 82 | Scansorial mammal | Plywood | 506107 | 6692939 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 83 | Scansorial mammal | Plywood | 506085 | 6692884 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 84 | Large parrot | Plywood | 506072 | 6692901 | 11/11/2020 | | - | - | Good | N/A | - |
| 85 | Scansorial mammal | Plywood | 506060 | 6692891 | 11/11/2020 | | - | - | Good | N/A | - |
| 86 | Scansorial mammal | Aluminium | 506124 | 6692886 | 11/11/2020 | | - | - | Good | N/A | - |
| 87 | Scansorial mammal | Plywood | 506163 | 6692938 | 11/11/2020 | | - | - | Good | N/A | - |
| 88 | Scansorial mammal | Aluminium | 506145 | 6692856 | 11/11/2020 | Not inspected | Not inspected | Not inspected | Severe | - | Box on ground, box completely broken, need new box |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|---------|-----------|-----------------|-------------------------|-------------------------|----------------|-----------|--------------|---|
| 89 | Scansorial mammal | Aluminium | 506168 | 6692833 | 11/11/2020 | | - | Old wasps nest | Good | N/A | - |
| 90 | Scansorial mammal | Aluminium | 506129 | 6692821 | 11/11/2020 | | - | - | Good | N/A | - |
| 91 | Large parrot | Aluminium | 506097 | 6692803 | 11/11/2020 | | Old leaf | - | Good | N/A | - |
| 92 | Scansorial mammal | Aluminium | 506156 | 6692776 | 11/11/2020 | | - | - | Good | N/A | - |
| 93 | Scansorial mammal | Aluminium | 506178 | 6692803 | 11/11/2020 | | - | - | Good | N/A | - |
| 94 | Possum | Aluminium | 506193 | 6692752 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 95 | Scansorial mammal | Aluminium | 506203 | 6692717 | 11/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 96 | Possum | Aluminium | 506174 | 6692724 | 11/11/2020 | | - | Old wasps nest | Good | N/A | - |
| 97 | Large parrot | Aluminium | 506232 | 6692758 | 30/11/2020 | Yellow-bellied glider | - | - | Good | N/A | Climber |
| 98 | Scansorial mammal | Aluminium | 506252 | 6692742 | 11/11/2020 | | - | - | Good | N/A | - |
| 99 | Small parrot | Aluminium | 506251 | 6692704 | 11/11/2020 | | - | Old wasp nest | Good | N/A | - |
| 100 | Scansorial mammal | Aluminium | 506209 | 6692659 | 11/11/2020 | | - | - | Good | N/A | velcroe sticky removed used a climber/ Wont require in future |
| 101 | Scansorial mammal | Aluminium | 506197 | 6692614 | 11/11/2020 | | - | - | Good | N/A | - |
| 102 | Large owl | Aluminium | 506264 | 6692609 | 30/11/2020 | | - | - | Good | N/A | Climber |
| 103 | Small owl | Plywood | 506851 | 6690166 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 104 | Small glider | Plywood | 506887 | 6690153 | 11/11/2020 | | - | - | Good | N/A | Large wood shavings |
| 105 | Large parrot | Aluminium | 506881 | 6690152 | 11/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 106 | Small parrot | Aluminium | 506865 | 6690156 | 11/11/2020 | | - | - | Good | N/A | - |
| 107 | Small parrot | Aluminium | 506863 | 6690148 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 108 | Small glider | Plywood | 506903 | 6690138 | 11/11/2020 | | - | - | Good | N/A | Large wood shavings |
| 109 | Large parrot | Plywood | 506895 | 6690132 | 11/11/2020 | | - | - | Good | N/A | - |
| 110 | Scansorial mammal | Plywood | 506858 | 6690177 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | Small mammal not aluminium possum |
| 118 | Large glider | Plywood | 509145 | 6688158 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 119 | Small parrot | Plywood | 509171 | 6688175 | 12/11/2020 | | - | - | Good | N/A | - |
| 120 | Scansorial mammal | Plywood | 509121 | 6688169 | 12/11/2020 | Sugar glider | - | - | Good | N/A | - |
| 121 | Scansorial mammal | Plywood | 509083 | 6688161 | 12/11/2020 | | Treecreeper spp. | - | Good | N/A | - |
| 122 | Small owl | Plywood | 509065 | 6688224 | 11/11/2020 | | Old leaf | - | Good | N/A | - |
| 123 | Large parrot | Plywood | 508797 | 6688418 | 12/11/2020 | | - | - | Good | N/A | - |
| 124 | Scansorial mammal | Plywood | 508703 | 6688453 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 125 | Small parrot | Plywood | 508611 | 6688488 | 11/11/2020 | | - | - | Good | N/A | - |
| 126 | Large owl | Plywood | 508591 | 6688566 | 12/11/2020 | | - | - | Good | N/A | - |
| 127 | Large owl | Plywood | 508376 | 6689023 | 26/11/2020 | | Trichosurus | - | Good | N/A | Large owl box |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|-----------|-----------|-----------------|-------------------------|-------------------------|-------------------|------------|--------------|----------|
| | | | | | | | spp. | | | | |
| 128 | Possum | Plywood | 508393 | 6689003 | 26/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 129 | Scansorial mammal | Plywood | 508409 | 6688986 | 26/11/2020 | Squirrel glider | - | - | Hinge wear | No | - |
| 130 | Scansorial mammal | Plywood | 508431 | 6688944 | 26/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 131 | Small owl | Plywood | 508519 | 6688874 | 26/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 132 | Small parrot | Plywood | 508544 | 6688843 | 26/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 133 | Small glider | Plywood | 508621 | 6688848 | 26/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 134 | Large owl | Plywood | 505226 | 6695187 | 12/11/2020 | | - | - | Good | N/A | - |
| 135 | Scansorial mammal | Plywood | 505267 | 6695115 | 12/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 136 | Small glider | Plywood | 505315 | 6695056 | 12/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 137 | Scansorial mammal | Plywood | 505362 | 6695039 | 12/11/2020 | | - | - | Good | N/A | - |
| 138 | Scansorial mammal | Plywood | 505384 | 6695091 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 139 | Scansorial mammal | Plywood | 505367 | 6695069 | 12/11/2020 | | - | - | Good | N/A | - |
| 140 | Scansorial mammal | Plywood | 505342 | 6695070 | 12/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 141 | Large glider | Plywood | 505402 | 6695026 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 142 | Small glider | Plywood | 505379 | 6694992 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 143 | Scansorial mammal | Plywood | 505453 | 6694971 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 144 | Scansorial mammal | Plywood | 505346 | 6695108 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 145 | Small parrot | Plywood | 505217 | 6695152 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 146 | Large parrot | Plywood | 505188 | 6695245 | 12/11/2020 | | - | - | Good | N/A | - |
| 147 | Small parrot | Aluminium | 505241 | 6695250 | 12/11/2020 | | - | - | Good | N/A | - |
| 148 | Small parrot | Aluminium | 505162 | 6695221 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 149 | Small owl | Aluminium | 505148 | 6695284 | 12/11/2020 | | - | Old mud wasp nest | Good | N/A | - |
| 150 | Scansorial mammal | Aluminium | 505177 | 6695299 | 12/11/2020 | | - | - | Good | N/A | - |
| 151 | Small parrot | Aluminium | 505183 | 6695339 | 12/11/2020 | | - | Mud wasp nest | Good | N/A | - |
| 152 | Possum | Aluminium | 505178 | 6695360 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 153 | Small owl | Plywood | 505156 | 6695370 | 12/11/2020 | | - | - | Good | N/A | - |
| 154 | Large parrot | Plywood | 505111 | 6695403 | 12/11/2020 | | - | - | Good | N/A | - |
| 155 | Scansorial mammal | Plywood | 505144 | 6695426 | 12/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 156 | Scansorial mammal | Plywood | 505192 | 6695431 | 12/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 157 | Scansorial mammal | Cyplas | 505043 | 6696232 | 12/11/2020 | | - | - | Good | N/A | - |
| 158 | Scansorial mammal | Cyplas | 505058 | 6696270 | 12/11/2020 | | Acrobates spp. | - | Good | N/A | - |

| Box ID | Box | Material | Easting | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|---------|-----------|-----------------|---------------------------|-------------------------|-----------|-----------|--------------|--|
| 159 | Scansorial mammal | Plywood | 505034 | 6696119 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 160 | Scansorial mammal | Plywood | 505044 | 6696111 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 161 | Scansorial mammal | Plywood | 505024 | 6696073 | 12/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 162 | Large owl | Plywood | 505085 | 6695991 | 12/11/2020 | Common brushtail possum | - | - | Good | N/A | Climber |
| 163 | Scansorial mammal | Plywood | 505053 | 6695935 | 12/11/2020 | | Old leaf | - | Good | N/A | - |
| 164 | Small glider | Plywood | 505053 | 6697656 | 9/11/2020 | | Brush-tailed Phascogale | - | Good | N/A | - |
| 165 | Small owl | Plywood | 505000 | 6697649 | 9/11/2020 | | - | - | Good | N/A | - |
| 166 | Large parrot | Plywood | 504992 | 6697692 | 9/11/2020 | | Old leaf | - | Good | N/A | Could not find on burn inspection may be wrong co-ordinates or different box |
| 167 | Small owl | Plywood | 505031 | 6697691 | 9/11/2020 | | Old leaf | - | Good | N/A | plastic melted on wire after fire |
| 168 | Small parrot | Plywood | 505035 | 6697714 | 9/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 169 | Microbat | Plywood | 505013 | 6697718 | 9/11/2020 | | - | - | Good | N/A | - |
| 170 | Microbat | Plywood | 504951 | 6697709 | 9/11/2020 | | - | - | Good | N/A | - |
| 171 | Small glider | Plywood | 504977 | 6697706 | 9/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 172 | Large owl | Cyplas | 504929 | 6697723 | 9/11/2020 | Australian owlet nightjar | - | - | Good | N/A | Fleed, Burnt following inventory check |
| 173 | Large parrot | Plywood | 504961 | 6697663 | 9/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 174 | Large parrot | Plywood | 504950 | 6697619 | 9/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 175 | Small parrot | Plywood | 504944 | 6697677 | 9/11/2020 | Australian owlet nightjar | - | - | Good | N/A | Onj fled, out of position adjusted |
| 176 | Small glider | Plywood | 504982 | 6697689 | 9/11/2020 | | - | - | Good | N/A | out of position adjusted |
| 177 | Small parrot | Plywood | 504876 | 6697720 | 9/11/2020 | | - | Ants nest | Good | N/A | - |
| 178 | Small owl | Plywood | 504856 | 6697686 | 9/11/2020 | | Bird spp. | - | Good | N/A | - |
| 179 | Small owl | Plywood | 504916 | 6697694 | 9/11/2020 | Australian owlet nightjar | - | - | Good | N/A | Fleed |
| 180 | Small owl | Plywood | 505117 | 6697642 | 9/11/2020 | | Old leaf | - | Good | N/A | Could not find, probable burnt |
| 181 | Small parrot | Plywood | 505007 | 6697644 | 9/11/2020 | | - | - | Good | N/A | - |
| 182 | Small glider | Plywood | 505786 | 6694325 | 10/11/2020 | | - | - | Good | N/A | - |
| 183 | Small owl | Plywood | 505799 | 6694301 | 10/11/2020 | | Bird spp. | - | Good | N/A | - |
| 184 | Small glider | Plywood | 505804 | 6694212 | 10/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 185 | Small glider | Plywood | 505810 | 6694249 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 186 | Scansorial mammal | Plywood | 505788 | 6694293 | 10/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 187 | Scansorial mammal | Plywood | 505815 | 6694253 | 10/11/2020 | | Old leaf | - | Good | N/A | - |
| 188 | Large parrot | Plywood | 505782 | 6694320 | 10/11/2020 | | - | - | Good | N/A | - |
| 189 | Scansorial mammal | Plywood | 505831 | 6694324 | 10/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 190 | Scansorial | Plywood | 505801 | 6694366 | 10/11/2020 | | Antechinus | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|-----------|-----------|-----------|-----------------|------------------|-------------------------|-------|-------------|-------------------------|--|
| | mammal | | | | | | spp. | | | | |
| 191 | Scansorial mammal | Plywood | 505815 | 6694354 | 10/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 192 | Small owl | Plywood | 505825 | 6694362 | 10/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 193 | Possum | Plywood | 505854 | 6694365 | 10/11/2020 | | - | - | Good | N/A | - |
| 194 | Scansorial mammal | Plywood | 505862 | 6694368 | 10/11/2020 | | - | - | Good | N/A | - |
| 195 | Scansorial mammal | Plywood | 505849 | 6694374 | 10/11/2020 | | Old leaf | - | Good | N/A | - |
| 196 | Scansorial mammal | Plywood | 505834 | 6694381 | 10/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 197 | Possum | Plywood | 508490 | 6688936 | 26/11/2020 | | Acrobates spp. | - | Good | N/A | - |
| 198 | Small glider | Plywood | 508496 | 6688903 | 26/11/2020 | | - | - | Good | N/A | Wood chips |
| 199 | Small owl | Plywood | 508474 | 6688919 | 26/11/2020 | | Trichosurus spp. | - | Lid missing | Need new lid and hinges | - |
| 200 | Scansorial mammal | Plywood | 508499 | 6688888 | 26/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 201 | Microbat | Plywood | 508502 | 6688901 | 26/11/2020 | | - | - | Good | N/A | - |
| 202 | Scansorial mammal | Plywood | 508461 | 6688935 | 26/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 203 | Scansorial mammal | Plywood | 508528 | 6688898 | 26/11/2020 | Squirrel glider | - | - | Good | N/A | - |
| 204 | Large parrot | Plywood | 504966 | 6697070 | 13/11/2020 | | - | - | Good | N/A | - |
| 205 | Large parrot | Plywood | 504946 | 6697027 | 12/11/2020 | | - | - | Good | N/A | - |
| 206 | Possum | Plywood | 504967 | 6697041 | 12/11/2020 | | - | - | Good | N/A | Large Wood shavings, requires gps fixing |
| 207 | Scansorial mammal | Plywood | 504993 | 6696970 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 208 | Scansorial mammal | Cyplas | 504986 | 6696928 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | Burnt |
| 209 | Microbat | Plywood | 504949 | 6696994 | 12/11/2020 | | - | - | Good | N/A | - |
| 210 | Small glider | Cyplas | 504991 | 6697016 | 12/11/2020 | | - | - | Good | N/A | Large wood shavings |
| 211 | Small glider | Plywood | 504996 | 6697063 | 12/11/2020 | | - | - | Good | N/A | - |
| 212 | Scansorial mammal | Cyplas | 504992 | 6697081 | 13/11/2020 | | - | - | Good | N/A | - |
| 213 | Possum | Plywood | 504992 | 6697062 | 12/11/2020 | | - | - | Good | N/A | Burnt |
| 214 | Scansorial mammal | Plywood | 504972 | 6697062 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 215 | Small parrot | Plywood | 504959 | 6697049 | 12/11/2020 | | - | - | Good | N/A | - |
| 216 | Small parrot | Aluminium | 504880 | 6696955 | 12/11/2020 | | - | - | Good | N/A | Co-ordinates changed 504920.6697115, not aluminium |
| 217 | Microbat | Plywood | 504920 | 6697107 | 13/11/2020 | | Microbat spp. | - | Good | N/A | - |
| 218 | Small parrot | Plywood | 504956 | 6697150 | 13/11/2020 | | - | - | Good | N/A | - |
| 219 | Small owl | Plywood | 505630 | 6693987 | 12/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 220 | Small glider | Plywood | 505648 | 6693962 | 12/11/2020 | | - | - | Good | N/A | Big wood chips |
| 221 | Scansorial mammal | Plywood | 505623 | 6693948 | 12/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 222 | Scansorial mammal | Plywood | 505618 | 6693955 | | | - | - | Good | N/A | - |
| 223 | Microbat | Plywood | 505616 | 6693994 | 12/11/2020 | | - | - | Good | N/A | - |
| 224 | Large parrot | Plywood | 505607 | 6694041 | 12/11/2020 | Common brushtail | - | - | Good | N/A | - |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|-----------|-----------|-----------------|-------------------------|-------------------------|------------------|-----------|--------------|--|
| | | | | | | possum | | | | | |
| 225 | Small parrot | Plywood | 504975 | 6697139 | 13/11/2020 | | - | - | Good | N/A | - |
| 226 | Small glider | Plywood | 504933 | 6697175 | 13/11/2020 | Lace monitor | - | - | Good | N/A | - |
| 227 | Small glider | Plywood | 504959 | 6697170 | 13/11/2020 | | - | - | Good | N/A | Bark shavings |
| 228 | Scansorial mammal | Plywood | 504935 | 6697187 | 13/11/2020 | | - | - | - | - | Pr burnt, cant find |
| 229 | Scansorial mammal | Cyplas | 504937 | 6697214 | 13/11/2020 | | Trichosurus spp. | - | Good | N/A | Box w small as entrance not small mammal, Burnt after inspection |
| 230 | Possum | Cyplas | 504942 | 6697234 | 13/11/2020 | | Trichosurus spp. | - | Good | N/A | Burnt after inspection |
| 231 | Possum | Plywood | 504917 | 6697226 | 21/04/2021 | | - | - | Good | N/A | - |
| 232 | Possum | Plywood | 504896 | 6697256 | 13/11/2020 | | - | - | Good | N/A | - |
| 233 | Scansorial mammal | Plywood | 504893 | 6697200 | 13/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 234 | Large parrot | Plywood | 509559 | 6687985 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 235 | Small owl | Plywood | 509540 | 6688009 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | - |
| 236 | Possum | Plywood | 509551 | 6687973 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 237 | Possum | Plywood | 509579 | 6687921 | 11/11/2020 | | - | - | Good | N/A | Wood shavings |
| 238 | Scansorial mammal | Plywood | 509644 | 6687879 | 11/11/2020 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 239 | Large parrot | Plywood | 509632 | 6687863 | 11/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 240 | Scansorial mammal | Cyplas | 509641 | 6687851 | 11/11/2020 | | Petaurid spp. | - | Good | N/A | - |
| 241 | Large parrot | Plywood | 509661 | 6687785 | 11/11/2020 | | Trichosurus spp. | - | Good | N/A | Climber |
| 242 | Small owl | Plywood | 509683 | 6687810 | 11/11/2020 | Common brushtail possum | - | - | Good | N/A | - |
| 243 | Possum | Plywood | 509796 | 6687726 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 244 | Possum | Plywood | 509906 | 6687661 | 11/11/2020 | | - | - | Good | N/A | Wood shavings |
| 255 | Small owl | Plywood | 509922 | 6687584 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 256 | Small glider | Plywood | 510006 | 6687555 | 11/11/2020 | | - | - | Good | N/A | Wood shavings |
| 256 | Scansorial mammal | Plywood | 510006 | 6687555 | 11/11/2020 | Stephens banded snake | - | - | Good | N/A | - |
| 257 | Scansorial mammal | Plywood | 509977 | 6687558 | 11/11/2020 | Aboreal Ants | - | Active Ants nest | Good | N/A | - |
| 258 | Scansorial mammal | Plywood | 510021 | 6687514 | 11/11/2020 | | Petaurid spp. | Old euro beehive | Good | N/A | - |
| 259 | Scansorial mammal | Plywood | 510020 | 6687516 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 260 | Scansorial mammal | Plywood | 510027 | 6687506 | 11/11/2020 | | Antechinus spp. | - | Good | N/A | - |
| 262 | Scansorial mammal | Plywood | 509909 | 6687621 | 11/11/2020 | Aboreal Ants | - | Active ants nest | Good | N/A | - |
| 263 | Scansorial mammal | Plywood | 509904 | 6687619 | 11/11/2020 | | Treecreeper spp. | - | Good | N/A | - |
| 240 A | Microbat | Cyplas | 504785 | 6697495 | | - | - | - | Nil | Nil | Burnt |

| Box ID | Box | Material | Easting s | Northings | Inspection date | Occupied species | Evidence of use species | Pests | Condition | Maintainence | Comments |
|--------|-------------------|----------|-----------|-----------|-----------------|------------------|-------------------------|-------|-----------|--------------|-----------------------------|
| 345 | Scansorial mammal | Cyplas | 504783 | 6697492 | | | - | - | - | - | - |
| 353 | Small parrot | Cyplas | 504791 | 6697479 | Not inspected | Not inspected | Not inspected | - | Good | - | - |
| 1 | Cock_Owl | Ply | 517887 | 6674740 | | | - | - | - | - | Climber Can get with go pro |

Appendix C – Chainsaw hollow monitoring data 2020-21.

Table C1: Section 2 (W2HC) autumn and spring chainsaw hollow monitoring data 2020-2021.

| Season | Box No. | Easting | Northing | Hollow type | Species present | Evidence of use | Pest species | Box condition | Maintenance | Comments |
|--------|---------|---------|----------|----------------------|-----------------|-------------------------|---------------|---------------|------------------------------|------------------------------------|
| Spring | 700 | 505647 | 6693785 | Small aboreal mammal | Nil | Feathertail glider nest | Nil | Good | N/A | Chew markings around entrance hole |
| Spring | 701 | 505642 | 6693786 | Microbat large | Nil | Nil | Nil | Good | N/A | |
| Spring | 702 | 505638 | 6693859 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | 50Mm entry, pic228 |
| Spring | 703 | 505636 | 6693859 | Microbat small | Nil | Nil | Nil | Good | Removed epicormic growth | Entry is perpendicular |
| Spring | 704 | 505651 | 6693907 | Small aboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Spring | 705 | 505648 | 6693910 | Microbat small | Nil | Nil | Nil | Good | N/A | Plunge cut no front |
| Spring | 706 | 505621 | 6694013 | Med arboreal mammal | Nil | Nil | Nil | Good | Removed epicormic growth | Screws coming off faceplate |
| Spring | 707 | 505637 | 6694019 | Microbat small | Nil | Nil | Arboreal ants | Good | Ant nest reopened with drill | |
| Spring | 708 | 505621 | 6694011 | Small aboreal mammal | Nil | Nil | Nil | Good | N/A | Pic1449, plus video, |
| Spring | 709 | 505620 | 6694011 | Microbat small | Nil | Nil | Nil | Good | N/A | Plunge cut, closing over |
| Spring | 710 | 504877 | 6697639 | Microbat small | Not inspected | Not inspected | Not inspected | | | |
| Spring | 710 | 504877 | 6697639 | Small aboreal mammal | Nil | Nil | Nil | Good | N/A | Pic 1253. |
| Spring | 711 | 504934 | 6697707 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt out |
| Spring | 712 | 504880 | 6697631 | Med arboreal mammal | Nil | Scattered leaf (unid) | Nil | Good | N/A | Pic 1248 |
| Spring | 713 | 504879 | 6697631 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt out |
| Spring | 714 | 504843 | 6697719 | Med arboreal mammal | Not inspected | Not inspected | Not inspected | Not found | Not found | Not found |
| Spring | 714 | 504861 | 6697736 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | Pic 1214 |
| Spring | 715 | 504841 | 6697721 | Small aboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Spring | 716 | 504839 | 6697725 | Small aboreal mammal | Nil | Nil | Nil | Good | N/A | In burnt area , persist |
| Spring | 717 | 504838 | 6697728 | Microbat large | Nil | Nil | Nil | Good | N/A | |

| Season | Box No. | Easting | Northing | Hollow type | Species present | Evidence of use | Pest species | Box condition | Maintenance | Comments |
|--------|---------|---------|----------|-----------------------|-----------------|-------------------------|---------------|---------------|--------------------------|--|
| Spring | 718 | 504816 | 6697782 | Microbat small | Nil | Nil | Nil | Good | N/A | Slit |
| Spring | 719 | 504816 | 6697789 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Small 20 opening |
| Spring | 720 | 504823 | 6697773 | Med arboreal mammal | Nil | Nil | Nil | Fair | Minor fire damage | Minor fire damage to opening, pic1227 |
| Spring | 721 | 504822 | 6697771 | Microbat small | Nil | Feathertail glider nest | Nil | Fair | Minor fire damage | Minor fire damage to opening, slit |
| Spring | 722 | 505744 | 6694640 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | Trunk growing around base plate, spiderwebs on outside |
| Spring | 723 | 505744 | 6694644 | Microbat small | Nil | Nil | Nil | Good | N/A | No sign of wear, entrance was 10mm see photo |
| Spring | 724 | 505746 | 6694625 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | N/A | 20mm opening |
| Spring | 725 | 505749 | 6694625 | Microbat small | Nil | Nil | Nil | Good | N/A | No sign of wear, hole 10mm drilled |
| Spring | 726 | 505732 | 6694547 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Spring | 727 | 505730 | 6694547 | Microbat small | Nil | Nil | Nil | Good | N/A | One picture |
| Spring | 728 | 505744 | 6694556 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Spring | 729 | 505743 | 6694558 | Microbat large | Nil | Nil | Nil | Good | N/A | No wear, hole 18mm |
| Spring | 730 | 505764 | 6694424 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Photo |
| Spring | 731 | 505764 | 6694420 | Microbat large | Nil | Nil | Nil | Good | N/A | Cobwebs, two chambers inside |
| Spring | 732 | 505764 | 6694354 | Med arboreal mammal | Nil | Nil | Nil | Good | Removed epicormic growth | One photo |
| Spring | 733 | 505762 | 6694356 | Microbat small | Nil | Nil | Nil | Good | N/A | Base not large small 15mm hole slit |
| Spring | 734 | 505740 | 6694678 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | Removed epicormic growth | Hole size 20mm, epicormic growth over hollows see hollow |
| Spring | 735 | 505744 | 6694676 | Microbat large | Nil | Nil | Arboreal ants | Good | Removed epicormic growth | |
| Spring | 736 | 505739 | 6694705 | Med arboreal mammal | Nil | Possible scats | Nil | Good | N/A | 4 images, |
| Spring | 737 | 505743 | 6694705 | Microbat small | Nil | Nil | Nil | Good | N/A | Entrance covered in cobwebs, diameter 15mm |
| Spring | 738 | 504830 | 6697448 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | N/A | Pic 1031 |
| Spring | 739 | 504828 | 6697449 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Photo on camera 1029 Lukes phone |
| Spring | 740 | 504825 | 6697464 | Med | Nil | Feathertail | Nil | Good | N/A | Pic 1025 |

| Season | Box No. | Easting | Northing | Hollow type | Species present | Evidence of use | Pest species | Box condition | Maintenance | Comments |
|--------|---------|---------|----------|-----------------------|-----------------|--------------------------|---------------|---------------|------------------------------|---|
| | | | | arboreal mammal | | glider nest | | | | |
| Spring | 741 | 504822 | 6697463 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt up see photo |
| Spring | 742 | 504858 | 6697393 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Cavity 70mm deep, 250mm wide. Can see in due to being burnt out |
| Spring | 743 | 504863 | 6697394 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | |
| Spring | 744 | 504868 | 6697379 | Med arboreal mammal | Nil | Microbat scat (possible) | Nil | Good | N/A | Pic 1042 |
| Spring | 745 | 504864 | 6697377 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Hole is the 20mm |
| Spring | 746 | 504894 | 6697329 | Med arboreal mammal | Nil | Antechinus nest (prob) | Nil | Good | N/A | Pic 1051, pic1053 |
| Spring | 747 | 504896 | 6697325 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | |
| Spring | 748 | 504902 | 6697311 | Small arboreal mammal | Nil | Old native beehive | Nil | Good | N/A | Pic 1100 |
| Spring | 749 | 504905 | 6697311 | Microbat large | Nil | Old native beehive | Nil | Good | N/A | Entry bl+A1:P55ocked |
| Autumn | 700 | 505647 | 6693785 | Small arboreal mammal | Nil | Feathertail glider nest | Nil | Good | N/A | Chew markings around entrance hole |
| Autumn | 701 | 505642 | 6693786 | Microbat large | Nil | Nil | Arboreal ants | Good | N/A | |
| Autumn | 702 | 505638 | 6693859 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | 50Mm entry, pic228 |
| Autumn | 703 | 505636 | 6693859 | Microbat small | Nil | Nil | Nil | Good | Removed epicormic growth | Entry is perpendicular |
| Autumn | 704 | 505651 | 6693907 | Small arboreal mammal | Nil | Nil | Nil | Good | Removed epicormic growth | |
| Autumn | 705 | 505648 | 6693910 | Microbat small | Nil | Nil | Nil | Poor | N/A | Plunge cut no front |
| Autumn | 706 | 505621 | 6694013 | Med arboreal mammal | Nil | Nil | Arboreal ants | Good | Removed epicormic growth | Pic 1455 |
| Autumn | 707 | 505637 | 6694019 | Microbat small | Nil | Nil | Arboreal ants | Good | Ant nest reopened with drill | |
| Autumn | 708 | 505621 | 6694011 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Autumn | 709 | 505620 | 6694011 | Microbat small | Nil | Nil | Nil | Poor | N/A | Plunge cut, closing over |
| Autumn | 710 | 504877 | 6697639 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Pic 1253. |
| Autumn | 710 | 504877 | 6697639 | Microbat small | Not inspected | Not inspected | Not inspected | | | |
| Autumn | 711 | 504934 | 6697707 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt out |
| Autumn | 712 | 504880 | 6697631 | Med | Nil | Antechinus | Arboreal ant | Good | N/A | Pic 1248 |

| Season | Box No. | Easting | Northing | Hollow type | Species present | Evidence of use | Pest species | Box condition | Maintenance | Comments |
|--------|---------|---------|----------|-----------------------|----------------------|--------------------------------|---------------|---------------|------------------------|---|
| | | | | arboreal mammal | | nest (prob) | material | | | |
| Autumn | 713 | 504879 | 6697631 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt out |
| Autumn | 714 | 504843 | 6697719 | Med arboreal mammal | Not inspected | Not inspected | Not inspected | Not found | Not found | Not found |
| Autumn | 714 | 504861 | 6697736 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | Pic 1214 |
| Autumn | 715 | 504841 | 6697721 | Small arboreal mammal | Nil | Feathertail glider nest (prob) | Nil | Good | N/A | Epicormic shoot removed |
| Autumn | 716 | 504839 | 6697725 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | In burnt area , persist |
| Autumn | 717 | 504838 | 6697728 | Microbat large | Nil | Nil | Arboreal ants | Good | N/A | |
| Autumn | 718 | 504816 | 6697782 | Microbat small | Nil | Nil | Nil | Good | N/A | Slit |
| Autumn | 719 | 504816 | 6697789 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Small 20 opening |
| Autumn | 720 | 504823 | 6697773 | Med arboreal mammal | Nil | Nil | Nil | Fair | Minor fire damage | Minor fire damage to opening, pic1227 |
| Autumn | 721 | 504822 | 6697771 | Microbat small | Nil | Feathertail glider nest | Nil | Fair | Minor fire damage | Minor fire damage to opening, slit pic @ 1042 |
| Autumn | 722 | 505744 | 6694640 | Med arboreal mammal | Squirrel glider (x1) | Nil | Nil | Good | N/A | Pics @ 1137 fled nest |
| Autumn | 723 | 505744 | 6694644 | Microbat small | Nil | Nil | Nil | Good | N/A | No sign of wear, entrance was 10mm slit see photo |
| Autumn | 724 | 505746 | 6694625 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | N/A | 20mm opening |
| Autumn | 725 | 505749 | 6694625 | Microbat small | Nil | Nil | Nil | Good | N/A | No sign of wear, hole 10mm drilled |
| Autumn | 726 | 505732 | 6694547 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Autumn | 727 | 505730 | 6694547 | Microbat small | Nil | Nil | Nil | Good | N/A | 15Mm slit |
| Autumn | 728 | 505744 | 6694556 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | |
| Autumn | 729 | 505743 | 6694558 | Microbat large | Egernia spp. (prob) | Nil | Nil | Good | N/A | No wear, hole 18mm |
| Autumn | 730 | 505764 | 6694424 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Photo |
| Autumn | 731 | 505764 | 6694420 | Microbat large | Nil | Nil | Nil | Good | N/A | Cobwebs, two chambers inside |
| Autumn | 732 | 505764 | 6694354 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | One photo |
| Autumn | 733 | 505762 | 6694356 | Microbat small | Nil | Antechinus nest (prob) | Nil | Good | N/A | Base not large small 15mm hole slit |

| Season | Box No. | Easting | Northing | Hollow type | Species present | Evidence of use | Pest species | Box condition | Maintenance | Comments |
|--------|---------|---------|----------|-----------------------|-----------------|-------------------------|---------------|---------------|------------------------|---|
| Autumn | 734 | 505740 | 6694678 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | N/A | Hole size 20mm, epicormic growth over hollows see hollow |
| Autumn | 735 | 505744 | 6694676 | Microbat large | Nil | Nil | Arboreal ants | Good | N/A | Took pic @ 1130 |
| Autumn | 736 | 505739 | 6694705 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | 4 images, |
| Autumn | 737 | 505743 | 6694705 | Microbat small | Nil | Nil | Nil | Good | N/A | diameter 15mm slit need hole drilled to see |
| Autumn | 738 | 504830 | 6697448 | Small arboreal mammal | Nil | Nil | Arboreal ants | Good | N/A | Pic 1031 |
| Autumn | 739 | 504828 | 6697449 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Photo on camera 1029 Lukes phone |
| Autumn | 740 | 504825 | 6697464 | Med arboreal mammal | Nil | Feathertail glider nest | Nil | Good | N/A | Pic 1025 |
| Autumn | 741 | 504822 | 6697463 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Burnt up see photo |
| Autumn | 742 | 504858 | 6697393 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | Cavity 70mm deep, 250mm wide. Can see in due to being burnt out |
| Autumn | 743 | 504863 | 6697394 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | |
| Autumn | 744 | 504868 | 6697379 | Med arboreal mammal | Nil | Nil | Nil | Good | N/A | Pic 1042 |
| Autumn | 745 | 504864 | 6697377 | Small arboreal mammal | Nil | Nil | Nil | Good | N/A | Hole is the 20mm |
| Autumn | 746 | 504894 | 6697329 | Med arboreal mammal | Nil | Antechinus nest (prob) | Nil | Good | N/A | Pic 1051, pic1053 |
| Autumn | 747 | 504896 | 6697325 | Unknown | Not inspected | Not inspected | Not inspected | Poor | Burnt needs new hollow | |
| Autumn | 748 | 504902 | 6697311 | Small arboreal mammal | Nil | Old native beehive | Nil | Good | N/A | Pic 1100 |
| Autumn | 749 | 504905 | 6697311 | Microbat large | Nil | Old native beehive | Nil | Good | N/A | Entry blocked |

Appendix D – Microbat monitoring data 2020-21.

Table D1: Microbat bat box and drainage structure monitoring data year one operation monitoring (2020-21).

| Section | Structure No. | Site Name | Easting | Northing | Roost features | Date | Species present | Number | Evidence | Breeding | Pest species | Box condition | Overall habitat value | Comment |
|---------|---------------|--------------|---------|----------|--|------------|--|---|---|----------|--------------|---------------|---|---|
| 1 | 46 | Boneys Creek | 512446 | 6686141 | 8 bat boxes; 2 cells (dimensions?); 41 joints suitable for roosting; 31 joints with roughened surface; | 18/05/2021 | Little bent-wing bat | 250-300 | Bats recorded in 13 joints, with scats recorded beneath a further 9 joints | Nil | Nil | Good | High - likely use by several hundred little bentwing bats in autumn & winter; | Bats predominantly using 25mm wide joints. Most joints with evidence only were <25mm. Boxes empty. Evidence of bats using the roughened surface |
| 1 | 49 | Nth Boneys | 511986 | 6686377 | 2bat boxes, 10 joints with roughened ceiling & 8 joints suitable for roosting | 18/05/2021 | Nil | 0 | Small amount of large scat beneath both boxes. | Nil | Nil | Good | Most joints are of low-moderate value; boxes represent most suitable habitat at the site | Several joints are wet & likely unsuitable for roosting. Boxes empty |
| 1 | 66 | Grays Rd | 510216 | 6687502 | 3cells (2.4h x 3w); all cells contain box sections within uneven joints | 18/05/2021 | Little bent-wing bat; Unid (poss eastern horseshoe bat in side pipe) | 80-115 (50-75 in centre cell & 30-40 in nth cell) | Bats recorded in 3 joints and scat deposits recorded beneath an additional 9 joints | Nil | Nil | NA | High - likely use by several dozen bentwing bats; bats using lip between box sections; no joints appear suitable. | Unused joints suggest bats are changing roosts between days. Possible external roosting based on wear marks on ceiling. |
| 1 | 67 | Grays | 510154 | 6687539 | 1 (1050mm) pipe | 18/05/2021 | Nil | 0 | Nil | Nil | Nil | Low | Low | Pipe inspected |

| | | | | | | | | | | | | | | |
|---|------|------------------|--------|---------|---|------------|----------------------|------------------|--|-----|-----|------|---|--|
| | | Road nth | | | | | | | | | | | | from east side |
| 2 | 25 | H'way Ck culvert | 506619 | 6690435 | 4 cells (3x 3.5wx3h & 1x3.5wx3.5; 8 hebel boxes; roughened ceiling in centre of 8 box sections in each cell | 18/05/2021 | Little bentwing bat | 450-500 + 4 dead | Bats recorded in 28 joints across all cells, & 1 bat box; scats recorded beneath a further 19 joints & 3 lift points | Nil | Nil | Good | High - likely use by several hundred bentwing bats | Majority of unoccupied joints are in smaller size class 10-15mm. Evidence of bats using the roughened surface. Number of unoccupied roosts with evidence may be due to small number of bats and choice of roost sites. |
| 2 | 25.1 | H'way Ck bridge | 506616 | 6690525 | 2 bat box | 18/05/2021 | Myotis macropus | SB=2; NB45-50 | Large scat deposit beneath NB box | Nil | Nil | Good | High - sheltered location beside large creek | Difference in pelage colour - brown to dark (chocolate) brown |
| 2 | 32 | Glenugie Ck | 504414 | 6698664 | Single arch 9m diameter; 12 joints suitable for bats; 4 bat boxes (external) | 18/05/2021 | Little bent-wing bat | 150-175 | Bats recorded in 8 joints in old section | Nil | Nil | NA | High - known to be used by several hundred little bentwing | Boxes empty |
| 2 | 40 | Old highway | 504252 | 6699472 | 2 cells; New H'way 1 cell (2.4Hx2.4W) contains 7 suitable joints all in west half; Old H'way 1 cell (2Wx1.5H); uneven box sections and areas of roughened concrete on ceiling | 18/05/2021 | Nil | 0 | Old H'way - small amount of scat & wear marks on parts of ceiling, obvert, and edges of box sections | Nil | Nil | NA | High - site likely to be used by several dozen bentwing bats during autumn and winter | Amount of scat influenced by rain events. |
| 1 | 46 | Boneys Creek | 512446 | 6686141 | 8 bat boxes; 2 cells (dimensions?); 41 joints suitable for roosting; 31 joints with roughened surface; | 12/11/2020 | Large-footed myotis | 2 | Small amount of scat on boardwalk; wear recorded on 15 joints, including | Nil | Nil | Good | High - likely use by several hundred little bentwing bats in | Distribution of wear suggests that bats are using the roughened ceiling to roost. |

| | | | | | | | | | | | | | | |
|---|------|------------------|--------|---------|--|------------|---------------------|------------------|---|-----|-----|------|---|--|
| | | | | | | | | | roughened ceiling | | | | autumn & winter; | |
| 1 | 49 | Nth Boneyes | 511986 | 6686377 | 2bat boxes, 10 joints with roughened ceiling & 8 joints suitable for roosting | 10/11/2020 | Nil | 0 | Very small amount of scat in boxes | Nil | Nil | Good | Most joints are of low-moderate value; boxes represent most suitable habitat at the site | |
| 1 | 66 | Grays Rd | 510216 | 6687502 | 3cells (2.4h x 3w); all cells contain box sections within uneven joints | 10/11/2020 | Nil | 0 | Scat deposits beneath 8 joints in nth cell, 5 joints in central cell & 4 joints in Sth cell | Nil | Nil | NA | High - likely use by several dozen bentwing bats; bats using lip between box sections; no joints appear suitable. | |
| 1 | 67 | Grays Road nth | 510154 | 6687539 | 1 (1050mm) pipe | 10/11/2020 | Nil | 0 | Nil | Nil | Nil | | Low | Pipe inspected from east side |
| 2 | 25 | H'way Ck culvert | 506619 | 6690435 | 4 cells (3x 3.5wx3h & 1x3.5wx3.5; 8 hebel boxes; roughened ceiling in centre of 8 box sections in each cell | 10/11/2020 | Little bentwing bat | 1 alive & 1 dead | Small-large scat deposits beneath 11 joints in Sth cell, 12 joints of mid-Sth, 10 joints of mid-nth, 16 joints of nth cell, & all bat boxes | Nil | Nil | Good | High - likely use by several hundred bentwing bats | Likely that some external roosting occurs as several joints with scats are too narrow for access, also using lifting anchors. Amount of scat influenced by flushing of culvert. Scat load increases from Sth to nth. |
| 2 | 25.1 | H'way Ck bridge | 506616 | 6690525 | 1 bat box | 10/11/2020 | Myotis macropus | SB=2; NB45-55 | Large scat deposit beneath NB box | Nil | Nil | Good | High - sheltered location beside large creek | Difference in pelage colour - brown to dark (chocolate) brown |

W2B Sections 1 and 2 Nest Box and Microbat Monitoring

| | | | | | | | | | | | | | | |
|---|----|-------------|--------|---------|---|------------|-----|---|--|-----|-----|----|---|--|
| 2 | 32 | Glenugie Ck | 504414 | 6698664 | Single arch 9m diameter; 12 joints suitable for bats | 25/11/2020 | Nil | | Nil | Nil | Nil | NA | High - known to be used by several hundred little bentwing | Exclusion removed on 25/11/20. Exclusion has been in place for 14 months |
| 2 | 40 | Old highway | 504252 | 6699472 | 2 cells; New H'way 1 cell (2.4Hx2.4W) contains 7 suitable joints all in west half; Old H'way 1 cell (2Wx1.5H); uneven box sections and areas of roughened concrete on ceiling | 12/11/2020 | Nil | 0 | Old H'way - small amount of scat & wear marks on parts of ceiling, obvert, and edges of box sections | Nil | Nil | NA | High - site likely to be used by several dozen bentwing bats during autumn and winter | Amount of scat influenced by rain events. |