

Draft Vegetation Management Plan Lot 273 DP 755266, 15 Mulloway Road, Chain Valley Bay



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Figure 1 – Subject Site



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Vegetation Management PLan

Vegetation Management Plan

The aims of this VMP include:

- Restoration of PCT 1619 and PCT 1718 vegetation within the conservation corridor to create a fully structured and diverse vegetation community.
- Weed control and maintenance of retained native vegetation as well as ٠ replanted areas.
- Installation of permanent protection fencing, followed by feral animal detection and possible eradication by professional trapper/shooter.
- Enhance arboreal connectivity for Squirrel Glider through the construction of glider poles and nest-boxes.
- Enrich corridor habitat for Swift Parrots.
- Management of the restored vegetation, protective fencing and any nest boxes or glider poles for a period of 5 years, with regular inspections by the Project Ecologist and compliance certificates sent to Council on an annual basis following commencement of works.
- Engagement of an ecologist to provide ecological advice and to undertake compliance inspections and certifications

Vegetation within conservation area and associated Fauna assemblage

PCT 1619 - Smooth-barked Apple - Red Bloodwood - Brown Stringybark - Hairpin Banksia heathy open forest of coastal lowlands

This vegetation community describes all non-floodplain vegetation located within the conservation corridor. Within the canopy, Angophora costata, Corymbia gummifera, Eucalyptus capitellata and E. haemastoma are the dominant species, with a subcanopy of Allocasuarina littoralis. The mid-storey is dominated by Pittosporum undulatum, Banksia spinulosa, Acacia terminalis, Acacia longifolia, Leptospermum trinervium, Lambertia formosa, Glochidion ferdinandi, Hakea laevipes, Hakea bakeriana, Persoonia levis, Banksia oblongifolia and within moister areas, Melaleuca sieberi.

The ground layer is diverse, comprising individuals of Pultenaea retusa, Epacris pulchella, Gonocarpus teucrioides, Pimelea linifolia, Lomatia silaifolia, Bossiaea obcordata, Platysace linearifolia, Mirbelia rubiifolia, Acacia myrtifolia, Billardiera scandens, Hardenbergia violacea, Xanthorrhoea latifolia, Patersonia sericea, Lomandra obliqua, Dianella caerulea, Pteridium esculentum, Lindsaea linearis, Actinotus minor, Cryptostylis subulata, Pteridium esculentum, Lepidosperma laterale and Pratia purpurascens. Grasses include Entolasia stricta, Eragrostis brownii, Themeda triandra, Panicum simile, Oplismenus aemulus, Imperata cylindrica and Anisopogon avenaceus.



Photo 1 – Unburnt intact vegetation of PCT 1619 in the central northern portion of the conservation area.

PCT 1718 - Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal The operator must evaluate the success of each treatment to determine lowlands of the Central Coast

This vegetation community describes the floodplain vegetation in the southern portion of the conservation corridor. The vegetation is upon hummocky grounds with small areas of soaks as well as mounds, thus there is a mixture of species that occur regularly in Swamp Sclerophyll vegetation as well as others that occur more regularly in drier locations but can handle the rare flood event.

The canopy is dominated by Angophora costata, Eucalyptus capitellata, E. robusta and Melaleuca guinguenervia. Mid-storev species are Melaleuca sieberi. Melaleuca linariifolia, Acacia longifolia, Pultenaea villosa, Glochidion ferdinandi and Dodonaea triquetra. Dominant ground layer species are Gahnia spp., Pteridium esculentum, Centella asiatica, Goodenia heterophylla, Goodenia ovata, Villarsia exaltata, Pimelea linifolia, Gonocarpus teucrioides and Pultenaea retusa. Grasses include Entolasia stricta, Panicum simile and Imperata cylindrica.



Photo 2 – Vegetation of PCT 1718 in the southern area of the conservation area.

Fauna Species Assemblage

The fauna list recorded from survey by Travers bushfire and ecology is highly diverse, with recorded threatened species including Powerful Owl, Square-tailed Kite, Eastern Coastal Free-tailed Bat, Little Bent-winged Bat, Large Bent-winged Bat, Greater Broad-nosed Bat, Grey-headed Flying-fox, Southern Myotis and Wallum Froglet. It is anticipated the management practices outlined in this VMP will serve to establish and enrich foraging and breeding habitat for these species, as well as other threatened species recorded in the locality.

Site Preparation

The following site preparation steps must be undertaken:

- Commence weed control within the whole of the VMP management area prior to planting works and to maintain weed control.
- Install permanent protection fencing with six locked access gates as shown on Schedule 1.
- Monitoring, trapping and removal of feral cats and baiting foxes from within the conservation area on an annual basis to suppress occupation.

Weed Control

Primary (initial) weed control is to be undertaken prior to any site works to remove highly invasive weed propagules and the bulk of exotic shrub and

ground layer species. All ground and shrub layer weed control works are to be undertaken by qualified personnel from an experienced bushland regeneration company utilising best practice restoration, revegetation and regeneration methods. The use of low residue and low toxicity herbicides is recommended in accordance with the & ECOLOGY manufacturer's labels. Only operators with Chemcert or equivalent training must undertake the spraving of weeds.

effectiveness of treatment of each target species. Care must be taken when applying herbicides near water bodies due to the sensitivity of waterways and resident flora and fauna. All herbicides must be applied according to the herbicide usage label and provisions of the Protection of the Environmental Operations Act (NSW). Weeding within the permanently fenced restoration areas is to be undertaken by hand or via spot spraying and without the use of heavy machinery.

Protective Fencing Permanent protective fencing is to be installed around all works areas encompassed by this VMP. This protective fence is to consist of a minimum of 1.8-metre-high chain link fence. A foot apron of 40mm diameter x 1.4mm gauge x 30 cm wide wire netting will be clipped to the bottom selvage wire, extended out along the ground for 30 cm outside the conservation area and buried. Wire netting of 50mm diameter x 1.4mm gauge x 120 cm height will be clipped to the top section of the fence from a height of 90 cm, with the uppermost 30 cm extending above the top selvage wire. Fencing wire cut to lengths of 90 cm will be vertically woven into the uppermost 60 cm of the netting and bent slightly to form a 30 cm, 45-degree non-rigid overhang into the pen. See Figure 3 for an example of this fence style.

Alternative fencing types can be considered provided the function of the fence to protect the in-situ wildlife habitat and arboreal connectivity through the corridor is maintained. We note the primary function of the fencing is to protect the movement of arboreal mammals in conjunction with culvert crossings under the access roads. This fencing shall contain six (6) locked gates as shown in Schedule 1 and shall remain in place in perpetuity. Permanent fencing is also to include a solid weatherproof permanent barrier fencing 500 mm high and 200 mm depth below ground to prevent frog dispersing onto internal roads. This frog-proof fencing is to be integrated into the protective fencing that surrounds PCT 1718.



Feral Animal Removal Control of foxes and rabbits will be undertaken using best industry practice. An environmental assessment will be undertaken to minimise the risk of non-target kill. The methods to be employed include a mix of baiting, trapping and burrow/den destruction.

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Photo 3 – Protective, feral-proof fencing

Vegetation Management Specifications

Enhancement of Glider Connectivity using Glider Poles

Despite Chain Valley Bay being part of Central Coast Council, geographically it can be considered part of Lake Macquarie. Within the Lake Macquarie LGA, the Squirrel Glider is widely distributed within separate habitat patches and forms part of a larger metapopulation. The review of literature indicates that squirrel glider population viability in smaller habitat patch sizes is highly dependent on maintaining habitat connectivity, and especially the ability of the species to utilise corridors and to cross roads and barriers (Lake Macquarie City Council, 2015). Habitat connectivity is required for regular movement of individual animals for feeding and breeding within a home range, population dispersal, and infrequent and occasional movement of an animal to facilitate the flow of genetic material between populations to prevent inbreeding.



Photo 5 – Squirrel Glider. From Lake Macquarie City Council (2015).

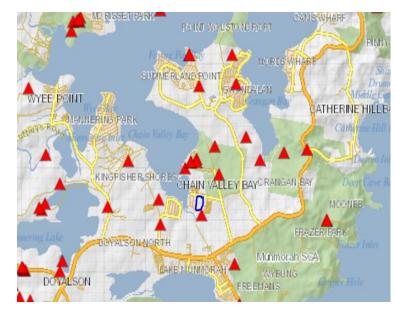


Figure 2 – Local verified Squirrel Glider records. Site location provided in blue. Source BioNet (2021).

Glider poles are to be installed to increase the movement range of arboreal mammals. These poles designed for Squirrel Gliders, are required to enhance the currently poor glider access to the north and south across Mulloway Road near the north-eastern corner of the subject site. Improved access for gliders in both directions across Mulloway Road will consolidate breeding, foraging and movement habitat or corridors within the larger patches of bushland in the wider locality.

It is proposed that at least two (2) glider poles within the footpath sections on each side of Mulloway Road are installed (minimum 4 glider poles in total). These poles would need to be 18-22 metres tall to allow for the distance across the Mulloway Road reserve (which is 22 m wide). These poles would also need to be maintained until planted trees within the road verge strip were tall enough to replace the poles. In addition, the installation of three (3) glider poles are recommended on the southern edge of the proposed road which will connect Teragalin Drive to the residential area. The location of these poles are provided in Schedule 1.

Several design principles must be implemented when installing the glider poles. These have been taken from RMS (2019). The poles are to be constructed of treated pine, and designed to ensure the height of the glider pole and cross beam is relative to the length of the glide required to traverse the road. Consideration must be given to the height of poles, height of crossbars and distance between poles. Glider poles and landing points must be close enough together and high enough that glide trajectory does not intersect traffic or the ground. Detailed design should use trigonometry rules to determine the specific requirements at each site. The glide trajectory must easily clear the traffic (i.e., at least 2 m above truck height) and any roadside fencing, with projected landings above the ground by 1 or 2 metres). Trees beside roads that create a tree-gap of 20 metres (two-lane road) or 43 metres (fourlane road) would need to be at minimum 13 metres and 25 metres in height, respectively, to enable animals to safely glide across the road. The glider pole angle must be 1V:1.84H and glide trajectory must have a clearance of no less than 6.6m above pavement surfaces on the main carriageways. The maximum glide distance must be 30m.

We note that one of the considerations calls for predator shields and pipes to be installed to discourage avian predators and provide shelter. However, studies and literature reviews have suggested that the evidence for predators exploiting wildlife crossings is scant, largely anecdotal and tends to indicate infrequent opportunism rather than the establishment of patterns of recurring predation (Little, 2002; Soanes. et. al., 2015). Furthermore, the installation of predator shields may not be utilised properly by the target fauna (Goldingay and Taylor, 2017) or disrupt their normal social behaviour (Ball and Goldingay, 2008).

Culvert underpass for terrestrial connectivity

Culvert underpasses will facilitate terrestrial movement of fauna within the conservation area under the roads linking the proposed development to Mulloway Road and Teragalin Drive. Design for maximum 0.5m high culvert in the proposed southern crossing at Teraglin Drive. On the northern crossing near Mulloway Road, multiple 300 mm concrete pipes laid side by side will provide fauna passage with a slight rise in the road profile. These will need to be designed so that the under-road passage surface is naturally vegetated as much as possible up to the culverts with other available shelter opportunities where the vegetation doesn't grow inside. The under surface should not be solid concrete construction or rubble but rather soil surface. The culverts should each have a minimum combined total width of 4m below each road. These measures will also minimise the potential for culverts to act as a predation point.

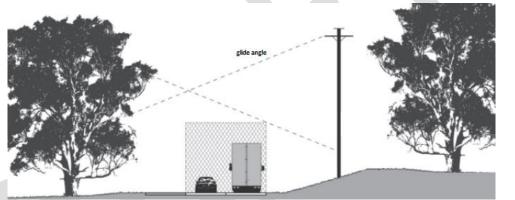


Figure 3 – Considerations for glider pole height. Adapted from Soanes, K., & van der Ree, R. (2015).







Photo 6 – Location of glider pole placement along Mulloway Road.

Photo 7 – Example of a fauna underpass (maximum size for this site)

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Vegetation Management Specifications

Nest Box Specifications and Installation

10 nest boxes will be installed within the conservation corridor lands under the guidance of a fauna ecologist. They are to be installed prior to any vegetation removal as a relocation point for recovered hollow-dependent fauna.

Nest box attachment

Nest boxes are to be appropriately affixed to an existing tree (or, if lack of available trees, a treated-pine timber pole) under the guidance of a fauna ecologist. Different methods of attachment are available. Travers bushfire & ecology generally recommends that the boxes should be fixed with robust stainless steel or treated pine coach screws to ensure a very secure attachment. Two vertical timber supports (approximately 30 x 30 mm timber strips 150 mm apart) are to be attached down the rear face of the box so that there are two points of attachment to the pole on a curved surface and the box does not rock in the wind. This will also provide easy attachment points to the trees without having to screw through the inside of the box. These are to be made of treated pine and any screws into this (for hinges etc.) should be treated pine or stainless. Holes at both ends of both supports are to be predrilled for easy attachment to trees. Timber supports should not be placed directly onto the box but with small timber spacers so that an eave is permissible along this side of the roof.

Joints are to be glued and screwed for strength. Glue should be labelled as nontoxic wood glue. All fasteners used are to be weather resistant stainless steel. galvanised or other. Screws into the treated pine supports are to be stainless steel or treated pine screws. All fasteners for attachment are to be supplied (stainless steel or treated pine coach screws). These are to be a suitable gauge depending on the size of bow and suitable length to pass through timber pole. Penetration will depend on the size of the box. Screws for small boxes should extend a minimum of 20mm into the heartwood of hardwood eucalypts and medium boxes ~40mm. All boxes are to be screwed so that a small distance for growth exists between the timber supports and the pole. This can be achieved with a small stainless sleeve over the screw. 5 mm drainage holes are to be drilled in each corner at the base. The exterior of the boxes (including treated pine supports) are to be painted with a primer and then a minimum of two coats of external non-alcohol based acrylic paint. The colour selected should be consistent with the colour of the pole.

SPECIES	INT DIA M	DEPTH/ LENGT H	ENT DIAM	VER T/ HO R	HEIGH T	REF
	70-					
	100 X					
	150-					BFN
	240	200-250	15-20			C
Bat sp.	mm	mm	mm slit	v	-	(n.d.)
· · ·						Train
						or
Bat, Chocolate			10 mm			(1995
Wattled		-	slit	v	-)
						Train or
Bat, Gould's			10 mm			(1995
Wattled	-	-	slit	v	-	(1355
						Train
						or
Bat, Lesser			10 mm			(1995
Long-eared	-	-	slit	v	-)
	120			- I .	_	
Little Lorikeet	mm	600 mm	60 mm	h	5m	
Cautized Clider	200	650 mm	60 mm		6	
Squirrel Glider	mm	650 mm	60 mm	V	6 m	

Table 1 - Recommended dimensions for nest boxes

Augmentation of Pre-existing Hollows

Any hollows required to be removed that have retention value are to be securely placed into a recipient tree in a manner that will not affect the recipient tree and will permit ongoing growth without the hollow being pushed off. The end capping is to be high grade marine ply glued and screwed onto the end of the hollow and coated with two coats of external acrylic paint. The fastening technique is to use external grade hardware and any securing through the cambium is to use stainless steel to prevent reaction from the tree. If the hollows cannot be practically placed in recipient trees, then they will instead be placed as on ground habitat and replaced with appropriately sized nest boxes at a ratio of 1:1.



Photo 8 – Augmented hollow designed for microbats.

Revegetation Specifications

Revegetation planting is to be undertaken preferably in March/April or September/October to avoid mid-summer heat and potential frosts. Revegetation works shall include the planting of native tree, shrub and groundcover species commensurate with PCTs 1619 and 1718. Overall quantities and planting densities are given in Table 2. The conservation corridor is divided into 3 treatment areas:

- Full revegetation in disturbed areas
- Enrichment planting of Swift Parrot/Squirrel Glider foraging species in both • PCT-1718 and PCT-1619
- Buffer zones adjacent to PCT-1718

Only plant species typically occurring within PCT-1619 and PCT-1718 are to be utilised for revegetation purposes, species are provided in Tables 3 and 4. Any variation from these species lists is to be approved by the project ecologist. All plants utilised for restoration are to be sourced from the local area, preferably within the same catchment. A minimum of 25 native species shall be used for each PCT as part of the revegetation works. As a minimum, holes for tree planting are to be twice the depth and twice the width of the pot size of the plant.

Revegetation maintenance

All installed plantings are to be protected with a 2 L cardboard box or corflute guards to protect from frost and grazing animals such as rabbits. Pindone rabbit baiting is to be undertaken 4 weeks prior to revegetation and throughout the entire maintenance period, (subject to Local Government and DPI guidelines). Weed control works and bush regeneration are to be undertaken over a minimum maintenance period of five (5) years post construction. Weed control and restoration works are to be monitored and audited by an appointed Project Ecologist to achieve the restoration performance targets. It is expected that at least 95% of plantings will survive, and any plants that are observed to die or be destroyed will be progressively replaced. If the success rate is less than 95%, contingency planting is to be undertaken to establish the targets required. Revegetation maintenance including weed control, replacement planting and removal of natural ground litter is to be undertaken over a 5-year minimum

period. Removal of natural ground litter is particularly important to ensure that the floristic diversity and structure will not be compromised by environmental burns. Watering of all installed plants is to be undertaken a minimum of once a week or as required for the first six to eight weeks post planting in the event of a dry spell. A contingency revegetation component is to be undertaken equivalent to 15% losses of all installed plants.

Nest Box Placement Nest boxes are to be erected by a qualified arborist under the supervision of the project ecologist or fauna ecologist. The specific locations of nest boxes within the locality are to be determined by the project ecologist. All replacement nest boxes are to be secured to timber poles at a minimum height of four metres above ground level facing the east to northeast direction. Place nest boxes as high as the poles allow, preferably using a cherry picker or tree climber - generally the higher the better for consideration to most species. Nest boxes and re-erected limbs are not to be placed near locations where public access is planned. Place nest boxes away from continual direct mid-day summer sun, with large entry holes away from any prevailing winds when close to open water-bodies, e.g., protect from strong southerly winds close to the ocean and contrastingly cool-hot westerly winds in different seasons. Attach nest boxes securely so that they do not shift or shake in response to strong winds or being knocked by the movements of heavier animals, e.g., possums and goannas. To ensure nest boxes are inaccessible to cats and rats or to also assist target species by exclusion of possums, the base of pole may also require the installation of tree guards or exclusion collars. Nest boxes should ideally be placed in such a way that they are accessible for management but concealed from interference. These artificial structures must be accessible for maintenance purposes with an expected life span of 20 years.

Nest Box Design

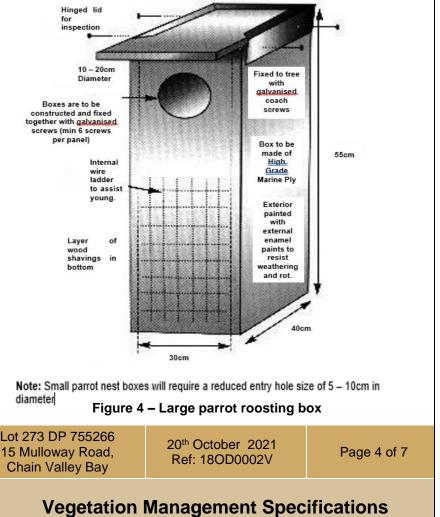
Timber is to be of high-grade ply 17+ mm thick (MDF, particle board and low-grade ply are not acceptable). The lid is to be hinged at the rear side of the box that is affixed to the tree to allow internal inspections from the front side. Lids are to be well sloped to the front to allow runoff by rain. Hinges are to be robust (not small) and made of brass, stainless steel or galvanised. Lids are to be larger than the overall cross-sectional size of the box and placed so that a small eave exists on all sides to prevent entry of rain.

Boxes are to be structed and fixed her with galvanised crews (min 6 screws

Layer wood shavings

diameter





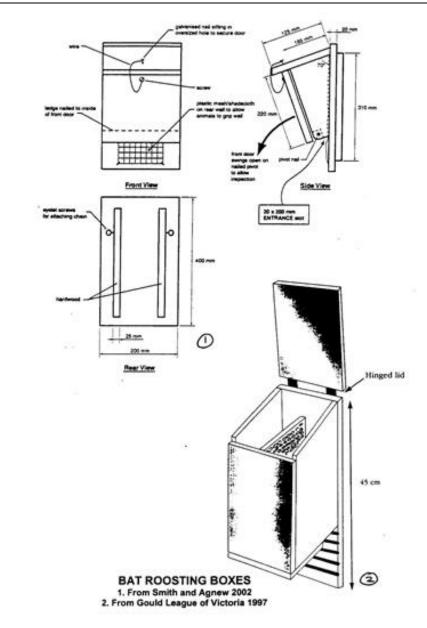


Figure 5 – Microbat nest box detail (Option 1 & 2)

Nest box maintenance

All nest boxes will be inspected annually for a minimum of ten (10) years and any damaged, or in danger of falling, are to be repaired or replaced. Deterring Mynas and Starlings from re-nesting is not easy; these pests are very persistent, and constant vigilance is necessary. This also means that you must have convenient regular access to the nest-box, and that you must be aware of what creatures are using it for what purposes. Nest boxes found to be utilised by threatened or otherwise significant fauna may be prioritised for ongoing management to ensure their longevity and replicate their design/placement characteristics.

The bushland/urban interface is to be densely planted in the outer 10-15 m to provide a visual and light barrier into the corridor to promote ongoing fauna use. Plant trees along the northern edge of the PCT 1718 area to act as a vegetated buffer for Noisy Miner and other aggressive bird edge impacts into this community. Planting of additional winter flowering street trees as well as other Myrtaceous species to reduce indirect impacts on Swift Parrot foraging habitat

Pathogen Control

The Key Threatening Processes (BC Act, 2016) to be controlled and monitored are infection of native plants by Phytophthora cinnamomi, introduction and establishment of exotic rust fungi of the order Pucciniales pathogenic on plants of the family Myrtaceae (myrtle rust), and infection of frogs by amphibian chytrid causing the disease chytridiomycosis (chytrid fungus). Factors that can reduce the risk of introducing or spreading pathogens include

- scheduling work during dry weather (and not immediately following wet weather) to reduce adhesion of soil to footwear, clothing, equipment and vehicles (when working across multiple field sites) visiting known noninfested sites first, followed by sites with unknown infestation status and lastly sites known to be infested:
- in areas of known affectation, scheduling activities so they do not immediately follow warm, moist conditions (which are favourable for spore production)
- restricting movement of soil and plant material to and from a site

Hygiene measures should be applied at a minimum when working on site. These are presented in Table 5.

Table 5 - Basic hygiene measures

Step	Description	
1. Check	Check personnel, clothing, footwear, backpacks and	· 1
	equipment for soil, plant material/propagules and other debris	
2. Clean	Remove all soil, plant material and other debris using a hard brush and (if required) clean water If dirty, wash hands with soap and water	1
	Remove seeds from clothing, footwear, tools and equipment by hand. Seeds that are difficult to remove can sometimes be scraped off clothing with a sharp implement (e.g., a knife), but	1
	use caution. Where possible, have a co-worker double-check that you have removed all seeds	
3. Dry	Where practical, ensure hands, clothing, footwear and equipment are dry before proceeding	

Project Management, Reporting and Auditing

The following project management tasks are to be undertaken:

- 1. Engagement of gualified and experienced bushland regeneration contractors to undertake all restoration works.
- 2. All plant stock is to be certified as local provenance from the supplier, with preference for seeds collected from similar community types.
- Engagement of a project ecologist to provide ecological advice and to 3. undertake auditing, reporting, monitoring (as per Table 6) and compliance certification.
- Photo points and monitoring quadrats are to be set up at the beginning of 4. contract work, to be monitored at least annually for 5 years (locations provided in Schedule 2).
- 5. A compliance statement is to be submitted to Council upon completion of the revegetation works (practical completion) and at the end of each year for 5 years maintenance period assessing compliance with the stipulated restoration performance targets.

Restoration Performance Targets

The following restoration performance targets are to be audited and compliance certificate issued by the project ecologist demonstrating satisfactory completion of the works in the Vegetation Management Plan.

- 1. Along the southern portion, the protective fence is to extend to 3 m high and covered with shade cloth, netting, mesh or similar to encourage Swift Parrots to approach the food source at a higher altitude, thereby reducing the potential for vehicle collisions.
- 2. Locked access gates (6 x) are to be installed in the protective fences as shown in Schedule 1 – Vegetation Management Plan.
- 3. Final weed coverage will not exceed more than 10% coverage at the end of Year 1 and less than 5% at the end of Year 2 and is to be free of invasive environmental weed species listed for the Greater Sydney Region within the NSW Biodiversity Conservation Act (2016);
- 4. A minimum of 1.02 ha of PCT 1619 is to be planted at 50% density and 0.19 ha of PCT 1691 will be restored at 95% native plant cover (Schedule 1).
- 5. A minimum of 0.45 ha of PCT 1718 will be restored 95% native plant cover (Schedule 1).
- 6. 0.18 ha within the stormwater detention basin will be restored to a forested wetland commensurate with PCT 1718 (Schedule 4).



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erosion.

7. Enrichment planting of 2.31 ha of PCTs 1619 and 1718 focusing on the canopy and shrub layers and an additional 10 street trees will be undertaken as shown in Schedule 1.

8. A minimum of 25 native locally occurring species commensurate with PCT 1619 or 25 native locally occurring species commensurate with PCT 1718 are to be utilised in the revegetation works within the restoration areas.

Native vegetation within the restoration zones is to comply with the minimum final density of 1 tree every

50m², 1 sub-canopy tree every 25m², 1 shrub per

10m², 3 groundcovers per 1m² and 1 vine per 15m².

10. There is to be no evidence of bare patches or areas of potential soil

11. A minimum of 95% plant survival is to be achieved and plant cover is to be typical of for PCT 1619 or PCT 1718 vegetation types after 5 years as assessed by the Project Ecologist.

Installation of 10 nest boxes are to be inspected and maintained for the whole of the maintenance period of 5 years.

Glider poles and Terrestrial underpasses are to be installed at road crossings as shown in Schedule 1.

Table 6 – Outline of Site Inspections

A. Purpose	B. Interval (starting from the Agreement Date)
To determine the percentage of living ground cover present within the conservation area for the purposes of grazing stock in accordance with Restoration Performance Targets	Every 12 months – inspection and sampling of all vegetation strata
To determine the physical condition of fencing and gates and whether they are maintained to a standard that can (a) control human disturbance if required under Part 8 in Section 1 of the Management Plan; (b) control the movement of Feral Pests if required under Part 6.1 of Section 1 of the Management Plan	Every 12 months
To determine extent of any human disturbance within the conservation area	Every 6 months
To determine the physical condition of existing fire trails and access tracks within the conservation area their navigability and evidence of erosion. The Owner must also document any evidence of erosion within other areas of the conservation site. Note: Parts 8.2 and 8.9 of Section 1 of the Management Plan contain requirements for erosion control	Every 6 months
To determine the presence of rubbish within the conservation area. Note: Part 8.3 and 8.6 of Section 1 of the Management Plan contains requirements for storing and disposing of Rubbish on the Biodiversity Stewardship Site	Every 6 months
To assess the effectiveness of threatened species habitat management actions (including the presence of feral animals)	Every 12 months

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Vegetation Management Specifications

Baseline Monitoring plot data is provided in Schedule 5 and existing flora and fauna lists are shown in Schedule 6.

Table 3 - Restoration Species List for PCT 1718

Scientific Name	Common Name
TREES	
Angophora costata	Smooth-barked Apple
Eucalyptus capitellata	Brown Stringybark
Eucalyptus robusta	Swamp Mahogany
Melaleuca quinquenervia	Broad-leaved Paperbark
SUB-CANOPY	
Glochidion ferdinandi	Cheese Tree
Melaleuca sieberi	-
Melaleuca linariifolia	Snow in Summer
SHRUBS	
Acacia longifolia	Sydney Golden Wattle
Pultenaea villosa	-
Dodonaea triquetra	Hop Bush
GROUNDCOVERS	
Pultenaea retusa	-
Pimelea linifolia	Slender Rice Flower
Pteridium esculentum	Bracken
Entolasia stricta	Wiry Panic
Panicum simile	Two Colour Panic
Gahnia clarkei	Tall Saw-sedge
Imperata cylindrica	Blady Grass
Goodenia heterophylla	Variable Leaved Goodenia
VINES	
Billardiera scandens	Apple Dumplings

Table 2 – Planting Quantities per Treatment Area

Treatment Areas	Quantity of Tubestock
Full revegetation in disturbed areas	128 trees
	256 sub-canopy trees
	640 shrubs
	19,200 groundcovers
	427 vines
Full revegetation of stormwater detention basin	36 trees
(PCT 1718)	72 sub-canopy trees
	180 shrubs
	5400 groundcovers
	120 vines
Enrichment planting of edge areas	462 trees
	924 sub-canopy trees
	2310 shrubs
50% revegetation zones	102 trees
	204 sub-canopy trees
	510 shrubs
	15,300 groundcovers
	340 vines

Table 4 – Restoration Species List for PCT 1619

Scientific Name	Common Name
CANOPY TREES	
Angophora costata	Smooth-barked Apple
Eucalyptus haemastoma	Scribbly Gum
Corymbia gummifera	Red Bloodwood
Eucalyptus capitellata	Brown Stringybark
SUB-CANOPY	
Allocasuarina littoralis	Black She-oak
Glochidion ferdinandi	Cheese Tree
Banksia spinulosa	Hairpin Banksia
Pittosporum undulatum	Sweet Pittosporum
Acacia terminalis	Sunshine Wattle
SHRUBS	
Acacia longifolia	Sydney Golden Wattle
Leptospermum trinervium	Flaky-barked Tea-tree
Hakea bakeriana	-
Lomatia silaifolia	Crinkle Bush
Persoonia levis	Broad-leaved Geebung
GROUNDCOVERS	
Lambertia formosa	Mountain Devil
Epacris pulchella	NSW Coral Heath
Pultenaea retusa	-
Pimelea linifolia	Slender Rice Flower
Dianella caerulea	Flax Lily
Pteridium esculentum	Bracken
Actinotus minor	Lesser Flannel Flower
Entolasia stricta	Wiry Panic
Eragrostis brownii	Brown's Lovegrass
Themeda triandra	Kangaroo Grass
Panicum simile	Two Colour Panic
VINES	
Billardiera scandens	Apple Dumplings
Hardenbergia violacea	False Sarsparilla
Eustrephus latifolius	Wombat Berry
Geitonoplesium cymosum	Scrambling Lily



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

Vegetation Management Specifications

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Program of Works

The program of works is aimed at providing a management framework for enacting works such as undertaking revegetation, maintenance, monitoring and review works required for the conservation corridor. For the purposes of the program of works, the listed tasks are divided into the following stages.

<u>Pre-restoration Works</u> (prior to vegetation removal and construction works) - All corridor preparation activities prior to the commencement of vegetation restoration works on site e.g., demolition works to remove derelict buildings and services and generally excludes any landscaping and planting works.

<u>Restoration Works</u> - Period during which primary restoration works are completed. *Primary Restoration Works*, as defined under this VMP, include the completion of primary and secondary weed control, protective fencing and planting works. Practical completion of the primary restoration phase is determined by the project ecologist at which point all primary restoration actions need to have been completed and the installed plants are well established only requiring periodic maintenance or watering. Should there be a delay in the completion of works, for any reason, then the vegetation restoration works phase may be extended.

<u>Post Restoration Works</u> - Consist of maintenance activities, unless further contingency works are identified by the project ecologist for auditing, fulfilment of the performance targets, or other purposes. Maintenance will be undertaken by a fully qualified bush regeneration crew for a minimum of five (5) years post completion of primary restoration works.

Table 7 - Program of Works

-	Action		Responsibility
Sta	ge 1 – Pre-restoration works		
•	Formation of site management team and establish supervision and consultation processes – minimum Project Ecologist, qualified bushland restoration contractor and site manager	•	Site project manager Project manager
•	Installation of primary exclusion fencing and access gates	•	Project manager
•	Demolition works to remove redundant structures and services	•	Suitably qualified bushland restoration contractor
•	Commencement of primary weed control	•	Project ecologist / contract pest control officer
•	Commencement of feral animal detection and removal	•	Bushland restoration contractor / project ecologist
•	Commencement of seed collection and propagation contracts	•	Contractor /project ecologist
•	Installation of glider poles and nest-boxes	•	Project ecologist
•	Provide certificates of compliance	_	
Sta	ge 2 – Restoration works	_	
•	Supervision of any vegetation and management works	•	Site project manager in association with the project ecologist
•	Monitor erosion control measures (monthly – especially after heavy rain) and replace if required	•	Contractor with advice of project manager
•	Waste removal and soil amelioration works to control weed infestations and provide suitable restoration soil base.	•	suitably qualified bushland restoration contractor
•	Complete revegetation works	•	Bushland restoration contractor / project manager
•	Commencement of secondary weed control and maintenance weed control	•	Contractor / suitably qualified bushland restoration contractor
•	Maintenance of fencing and signage around protected	•	Contractor
	vegetation	•	Contractor / suitably qualified bushland regenerator
• Pro	Continuation of primary restoration and revegetation works vide certificates of compliance at practical completion	•	Project ecologist
	ge 3 – Post Restoration Works	+	
•	Enrichment planting within revegetation areas if required.	•	Qualified bushland restoration contractor with advice
•	Continuation of regeneration and weed control maintenance	•	of project ecologist Contractor / suitably qualified bushland regenerator
•	.Monitoring of retained vegetation at six (6) months, twelve (12) months and annually for five (5) years post construction stage.	•	Project ecologist Site manager with advice of project ecologist
•	Conduct maintenance beyond five (5) years as required		Project ecologist
•	Provide certificates of compliance at end of each year during the 5-year maintenance period		

The following typical timeline is provided to indicate the overall timing of restoration works within the conservation area. The installation of gilder poles and culverts are to be undertaken as part of the subdivision works. The commencement of the maintenance period of five (5) years is subject to the completion of primary restoration works as certified by the project ecologist. A certificate of practical completion will be required as evidence of satisfactory completion prior to the commencement of the maintenance period.

The successful implementation of restoration works may affect the release of any required bonds as required. Upon engagement, contractors are expected to meet the following typical schedule of works.

ID	Task Name	Duration			Priv	nar	νP	est.	ora	tion	Wo	orke			ſ
	ruon numo	Burution	1		3								11	12	ł
	STAGE 1 - PRECOMMENCEMENT		Ľ	2	5	-	5		ť	0	3	10		12	ł
								1							ľ
1.0	PROJECT INITIATION	1 month													
1.1	Confirm funding	1 month													
1.2	Preparation of contract schedules	1 month													
1.3	Submission of fee proposals	1 month													
1.4	Contractor approvals, engagement of project ecologist & bushland restoration contractor	1 month													
															t
2.0	SITE PREPARATION AND PROPAGATION														
2.1	Pre-commencemnt vegetation condition assessment &														
	installation of monitoring plots	1 day													L
	Seed collection	12 months													
_	Plant propagation (initial & contingency)	8 months													
2.5	Install sediment and erosion control measures	2 weeks						-						<u> </u>	ŀ
2.6	Obtain permit & undertake pest (fox/cat and rabbit) control -													ĺ	
	Pindone baiting - if required	6 weeks						-		-				<u> </u>	┞
	STAGE 2 DURING CONSTRUCTION WORKS														┢
															t
3.0	WEED CONTROL														
3.1	Primary weed control	3-6 months													ľ
3.2	Secondary weed control	3-6 months													
															Γ
4.0	REVEGETATION WORKS	1-1.5yrs													
4.1	Site preparation - sediment and erosion control, removal of														
7.1	waste	1-5 days													
4.2	Construction works - regrading and stormwater outlet works	6-12 months													
4.3	Revegetation works	6 months													
4.4	Regeneration works (if required)	3 months													L
4.5	Initial watering & maintenance	9 months													
4.6	Pest control - rabbit baiting and fox/cat control (if required)	7 months													
	STAGE 3 - POST CONSTRUCTION WORKS														
														-	ŀ
5.0	BUSH REGENERATION & REVEGETATION MAINTENANCE														
5.1	Watering, maintenance, weed control and repairs	2 years													L
	Ongoing regeneration of existing bushland areas	2 years													
5.3	Pest Control - baiting	2 years													
														L	
6.0	MANAGEMENT AUDITING AND MONITORING														
6.1	Contractor supervision / monitoring	2 years													
6.2		2 years												-	ł
6.3	Submission of annual reporting	2 years						-							┝
7.0	CONTINGENCY & MAINTENANCE WORKS (Subject to Audits)														
7.1	Target noxious weeds	2 weeks		-	-	-	\vdash	╞		\vdash				-	t
	Replacement planting	1 month	-				1	t		1				F	t
	Watering & maintenance	3-6 months					1	t		1					t
7.4	-	6 months					L	Ĺ	L	L	L	L			ſ
		1		1	-	1	1	1	T	1	1	1	1		r



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

Vegetation Management Specifications

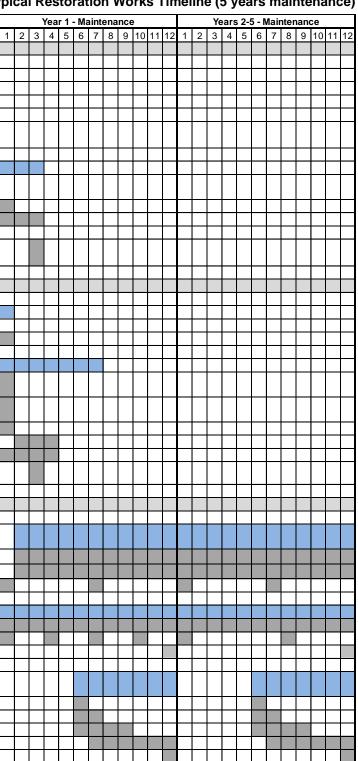


Table 8 – Typical Restoration Works Timeline (5 years maintenance)

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NOTE : Southern lot boundary (adjacent to Karignan Creek) is to be verified by a registered surveyor.

Legend

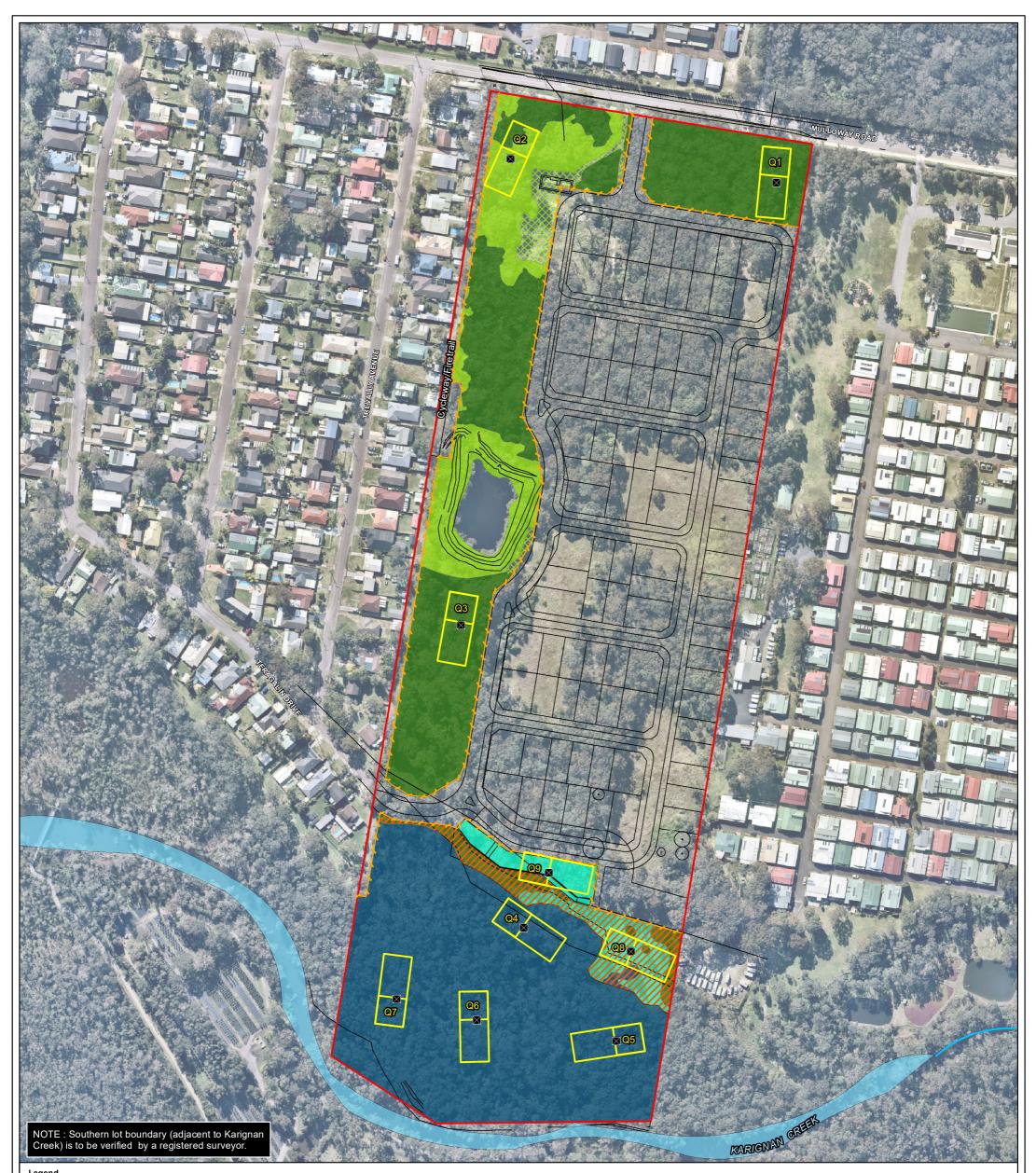
- Lot boundary (source: CAD 16.52ha)
- Creek line (source LPI)
- Creek line (LPI)
- Protective fencing (1607m)
- Existing clearing for sewer line
- Stormwater basin
- **S** Environmental signage (7)
- 🔀 Gate (8)

Ο

- Trees to retain
- Trees to remove
 - Critical glider trees for retention
- + Glider pole
- Natural habitat connectivity
- Artificial habitat connectivity
- High-density enrichment planting/revegetation (2.31ha)
- Street tree planting (0.1ha)
- O Hollow bearing trees
- Potentially suitable for Large Forest Owl \bigcirc
- TEC Buffer
- Baited camera
- **Restoration Zones**
- PCT 1619 Smooth-barked Apple Red Bloodwood -Brown Stringybark Hairpin Banksia heathy open forest
- Good condition (2.54ha)
 - 50% restoration (1.02ha)
- Full restoration (0.19ha)
- PCT 1718 Swamp Mahogany Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast
- Good condition (3.46ha)



Cross section		F	ull restoration (Forested wetland) (0.45ha)			
PROJECT & MXD REFERENCE 15 Mulloway Road, Chain Valley Bay 18OD02_VMP001	date & issue number 15/10/2021 Issue 1		scale & coordinate system 1:2,500 @ A3 GDA 1994 MGA Zone 56		0	
Schedule 1 - Vegetation Mar	•			Disclaimer: The map and location of feal assessing the viabili has been produced level of inaccuracy, t are to be confirmed b	ures which may pro ty of the proposed we on a map base with he location of all ma	ove critical in orks. Mapping n an inherent oped features



NOTE : Southern lot boundary (adjacent to Karignan Creek) is to be verified by a registered surveyor.

Legend

- Lot boundary (source: CAD 16.52ha) Restoration Zones
- Creek line (source LPI)
- Creek line (LPI)
- Protective fencing (1607m)
- Location of cameras for monitoring and reporting
- Vegetation Integrity Monitoring Plots
- TEC Buffer (0.48ha)



Full restoration (0.19ha)

PCT 1718 - Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast

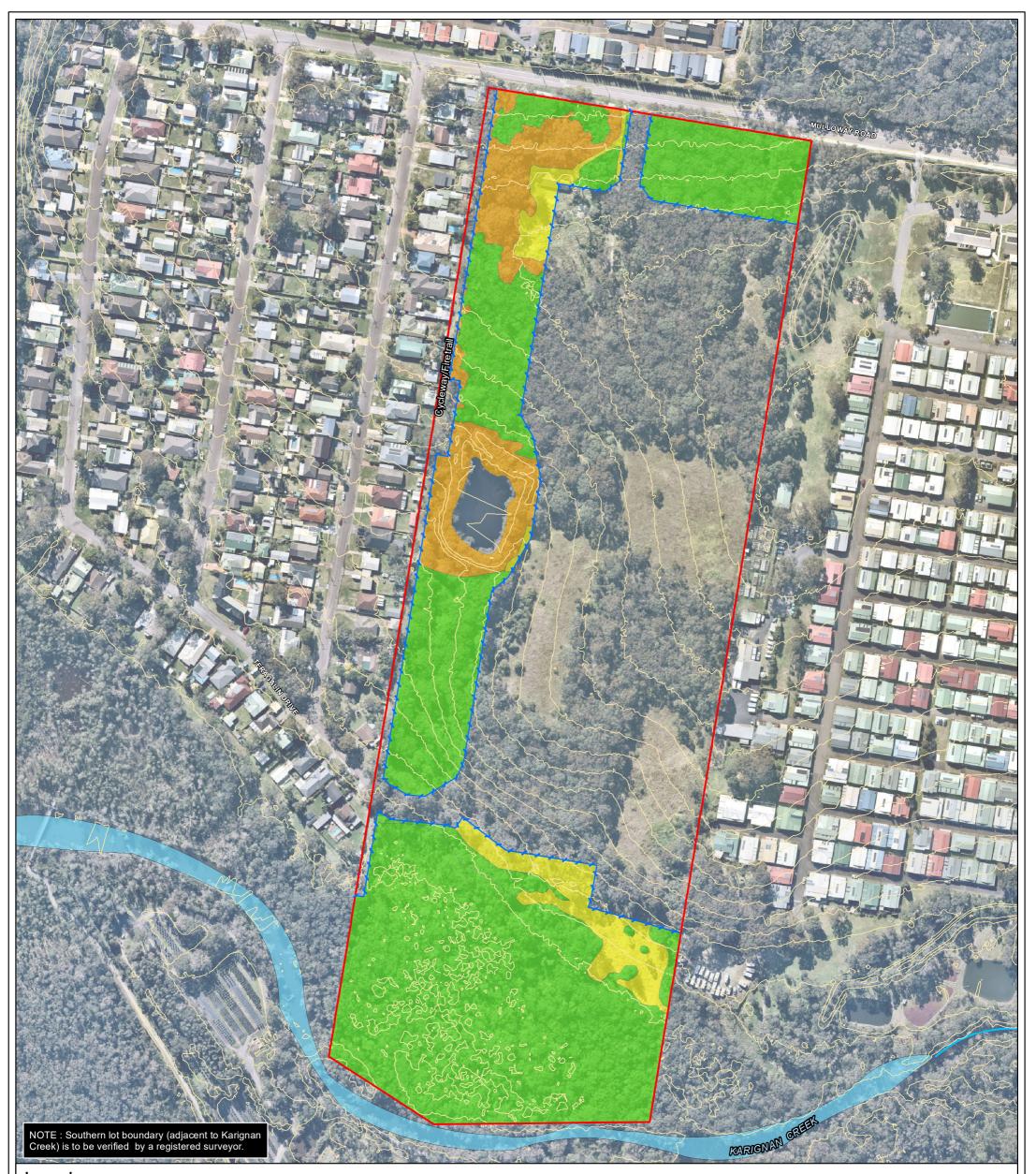


Full restoration (0.45ba)



Full restoration (0.45na)					
PROJECT & MXD REFERENCE 15 Mulloway Road, Chain Valley Bay 18OD02_VMP002	DATE & ISSUE NUMBER 14/10/2021 Issue 1	scale & coordinate system 1:2,500 @ A3 GDA 1994 MGA Zone 56	0	50] 100 m
Schedule 2 - Auditing and Mo	onitoring Works		Disclaimer: The mappi and location of featu assessing the viability has been produced o level of inaccuracy, the are to be confirmed by	res which may pro of the proposed wo n a map base with location of all map	ove critical in orks. Mapping n an inherent pped features

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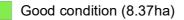


NOTE : Southern lot boundary (adjacent to Karignan Creek) is to be verified by a registered surveyor.

Legend

Lot boundary (source: CAD - 16.52ha) Vegetation Condition

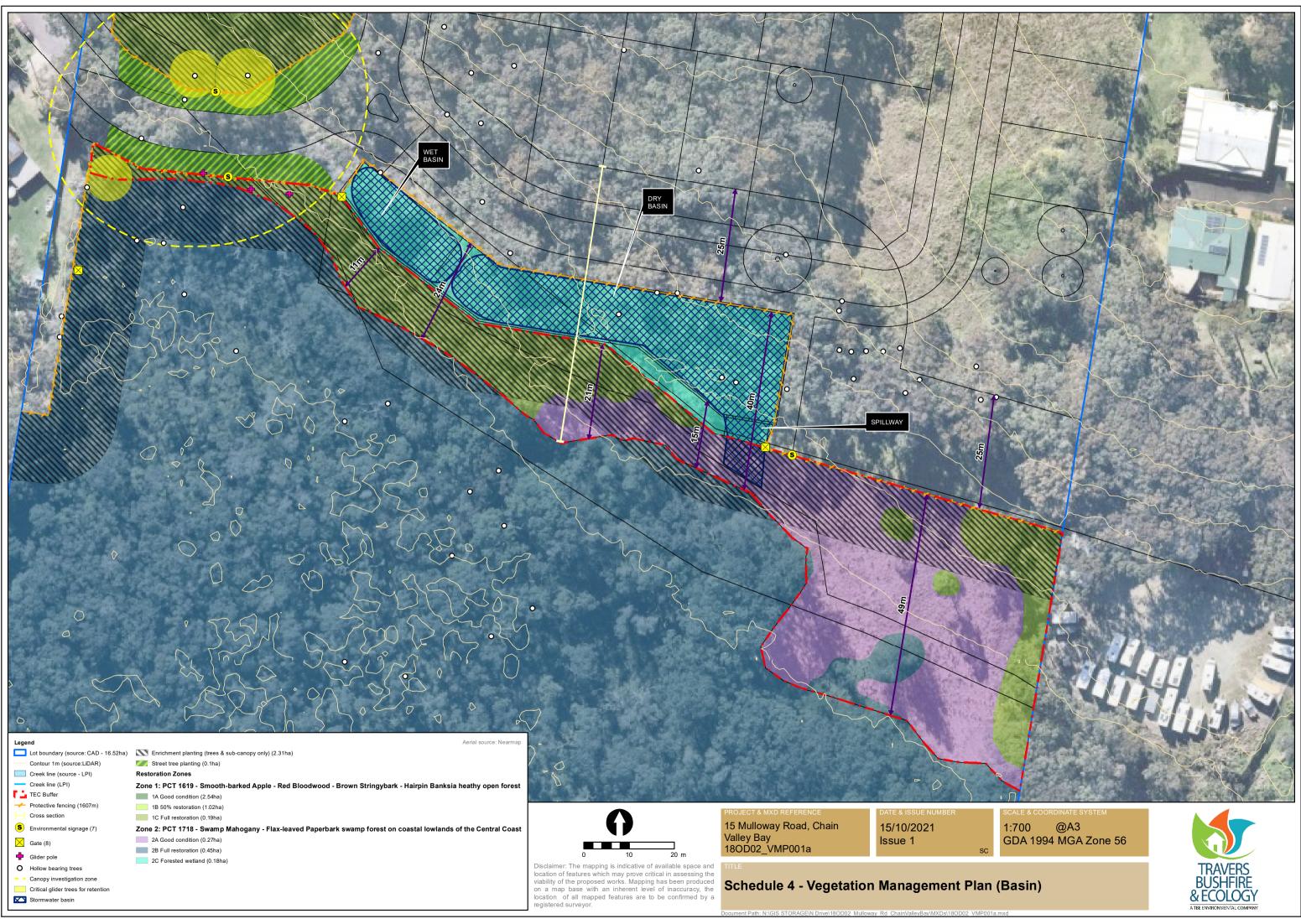
- Contour 1m (source:LiDAR)
- Creek line (source LPI)
- Creek line (LPI)
- ✓ Protective fencing (1607m)

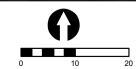


Fair Condition (1.02ha)

Poor Condition (0.83ha)







Schedule 5 – Baseline Monitoring Data

The following plots were taken on site using the Biodiversity Assessment Method (BAM) in 2017. The data from these plots is used to come up with a vegetation integrity score, by which the vegetation is rated based on quality, disturbance and presence of habitat features. It is anticipated that these plots will be used as the baseline data, and that subsequent annual re-assessments in the same location will be used for monitoring of the vegetation on site.

			Surv	ey Name	100	Plot I	dentifie	ər	1.	11200	1	Reco	orders	199	1	70515
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/egetation	Class		<u> </u>	9.	2.30				1						Confid H M	
Plant Com	munity Type		. 8	1								EE	:C: ,		Confid D M	ence:
	ng and northing fi Shape) of 0.04 h												NRY S	t m	a 1)	1.19
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(400	m² plot) Trees		8	dbh Iarge trees	for	80 +	Euc*		1	Non Euc		Holic		(Euc*) eucal) and I	
	Shrubs		15	Euc* & No	n Euc C	m	WI EL	0	5	Non E	uc Ø	11680	WS.		Euc) s	
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antada e ga	Ferns	11 1	2	20 - 29	cm	174 14	AT THE	(6)			0	1	0	Loph Sync	ostemo	on and
	Other		6	10 - 19	cm	DHI LH			1441 1 441 1	TH HI	144		3	numb		tems by
Sum of	Trees		57	5-90	m				HH 14	4	(6)	n	a	hollo	class w ws (inc	
Cover of native	Grasses etc		22.5	< 5 c	m				11		(Z)	D/	/a	ucuu	otomo	(1000)
vascular plants by	Forbs		1.3	Length	of logs (m)	un	-	UH	LINK	IIIK	144	Raise de		tota	al
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Printed 31 August 2017 Form version 5 - designed March 2017

Monitoring Plot 1 Baseline Data.

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nt of Grasses etc.	50		added at h	6	2 1000	* includes all species of Eucalyptus,	Native -			8	30 – 49 cm	IHT I	1	and the second second second		of Eucalyptu: Corymbia,
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Trees		10 – 19 cm	() mu		() ()	number of stems by size class with		Trees	-	45.3	1443131 144534494 02	111		THETHE	Profession and	size class w hollows (inc
CARLES CONTRACTOR	39	5 - 9 cm	1	URI	m/a	hollows (including dead stems/trees)		Shrubs		5.3	5 – 9 cm	ile.	3	() n/a	dead stems
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s by Forbs	0.6	Length of logs (WHY WHY HAT		total	growth -	Ferns	-		(≥10 cm diamet		that IIII	Tally space	w in the y	3
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owth		in length)	to each size class whe	en the number of livi	ng tree steins with	in the size class is ≤ 10.		Other		. 1	THE REPORT	e used when	the number o	the number of livin f living tree stems wit 200, 300	g tree stems with hin a class is > 10	hin the size class 0. Estimates sho
group Ferns	2.1	in length) Counts must apply to Estimates can be us from the number se	to each size class whe sed when the number rries: 10, 20, 30, 100	en the number of livi of living tree stems w 0, 200, 300	ithin a class is > 10	in the size class is ≤ 10.). Estimates should draw	and the state	Other		3 1 1.5	Counts must ap Estimates can b from the number For a multi-ster	e used when r series: 10, 1 nmed tree, of resence of a	the number o 20, 30, 100, only the larges stem containir	f living tree stems wil 200, 300 t living stem is includ ng hollows, not the co	ed in the count/es	that stem. Only
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Monitoring Plot 2 Baseline Data.



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

Monitoring Plot 3 Baseline Data.

20th October 2021 Ref: 18OD02VR

Schedule 5 – Baseline Monitoring Data

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Sum of	Trees		43-2	5 – 9 ci	5 – 9 cm		n(11	ing di	6	1997	n/a	si h	ize class ollows (in ead sten	ncluding
Cover - of native	Grasses etc.		32.9	< 5 cm	n	111		3			2		n/a	- de la		
vascular plants by	Forbs	12	1.5		Length of logs		W	3	ttt	WHY LAY	5	10-	11.991	1000	to	otal
growth	Ferns	- 4			liameter	ieter, >50 cm				t uitsily space					1	4
orm group	Other	-	0.3	-2-3-4-275 Service		v to each		class w	on the	number	of livin	na tree	stein	s within t	he size c	ass is ≤ 10
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Monitoring Plot 4 Baseline Data.

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56			IBRA re	gio	n			Phot	o#	~			Zoi	ne ID		
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lant Con	nmunity Typ	9	2 3		1 <u></u>							E	EC:	ACE	H M Confide	ence:
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Richness	Forbs	14	4		30 – 49 c	1	HHT I	E	2	1	2		1	Cory	Corymbia, Angophora,	
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le pre de p	Trees	der a	35		Contraction Contraction	147.545	111		8	144411	(14	23682.7	17.122	size o	per of ste	h
Sum of Cover	Shrubs	Lase -	15.9		5 – 9 cn	A President		ę	Ð		12	n	/a		ws (inclusters/t	
of native vascular	Grasses etc		48-27		< 5 cm	ent e	111	0	3) 11	U/	4	n	/a	. Al		
plants by growth	Forbs		3.7		Length o	ength of logs (m) with with with total								11		
orm group	Ferns	(842) (7-2)	2		(≥10 cm dia in length)	10 cm diameter, >50 cm INT IN Tally space										
A LA	Other	1-7 101	0.1		Counts mu	an he u	to each si	ze class w	hen ti	he number of lving tree stem	living	tree stel	ns Wit	in the si	ze class	is ≤ 10
ligh Threat	Weed cover	T - 1	12.4		from the nu	mber se	ries: 10, 2	0, 30, 1	00, 20	ving stem is in			4			
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AM Attribu	te (1 x 1 m ple	ots)	Litter	cove		-	the second second second second	cover (Cryptogar	-	Contraction of the	T	Rock		%)
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2 11 26 StG* 1	rage of the 5 su	2526 N.K427.0	<u> </u>	17	1		18				2			14	0	1
m x 1 m plot	assessed as the 5, 15, 25, 35, and s assessors may ssessment score	also reco	ng the midlin ord the cover	of ro	er cover inc ck. bare oro	ind and	cryptopar	is, twigs, n soil crus	branc	hlets and brand	ches (less than	10 cm	in diame	eter). Wit	thin the
Phy	siography	+ site	features	s tha	at may l	nelp in	n detei	mining	P P	CT and M	ana	geme	nt Z	one (o	ptiona	1)
Morphologica Type			Landform Element Soil Surfac	0			Landfo Pattern Soil		0.		1.12	licrorelief		hu	mmac	iky
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Monitoring Plot 5 Baseline Data.



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Date 11/12/17



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

A 171 % Z Chokin Volley Boy BSAR DZ LH IBRA region Photo # Zone ID Dimensions Orientation of midline from the 0 m point. Photo # Zone ID Dimensions Orientation of midline from the 0 m point. Photo # Confidence:		100	Sur	vev	Nam	e	200	Plot	Identifier	11	Sector 1	1		F	lecor	ders	11		52	1.41
IBRA region Photo # Zone ID Dimensions V Orientation of midline from the 0 m point. Avsgrubilic Confidence: Dimensions V Orientation of midline from the 0 m point. Confidence: Dimensions V Confidence: Confidence: Dimensions EEC:SSFCF Confidence: Dimensions Sum values EAM Attribute (20 x 50 m pior) # Tree Stems Count living euclaptic Record number of living euclaptic 3 And 0 50 - 79 cm WI W Wing euclaptic 30 - 49 cm WI WI W Wing euclaptic Confidence: 10 10 - 19 cm WI WI Wing euclaptic Confidence: 110 - 19 cm WI WI Wing euclaptic Confidence: Confidence: 10 - 19 cm WI WI WI Wing euclaptic Confidence: 110 - 19 cm WI WI WI Wing euclaptic Confidence: 10 - 19 cm WI WI WI Wing euclaptic Confidence: 110 - 19 cm WI WI WI WI	-		5810				R				14					1000			A	03000
Dimensions Orientation of milline from the 0 m point. Misginalize Confidence: a point marker. If applicable, orient picket so that perforated rib points along direction of milline.	-	08,00	Constanting of the	1.48	199	Bai	2 00	Onin	ALCON 1929	1978	Ln				1853		ID	-	-	
Dimensions from the 0 m point. Integration Image: construction of the construction of moline. Confidence: Image: construction of moline. EEC:SSRC Confidence: Image: construction of moline. EEC:SSRC Image: construction of moline. Confidence: Image: construction of moline. EAM Attribute (20 x 50 m plot) Image: construction of moline. Construction of moline. Construction of moline. Image: construction of moline. EAM Attribute (20 x 50 m plot) Image: construction of moline. Record number of living acculty? Image: construction of moline. Eax * Attribute (20 x 50 m plot) Image: construction of moline. Record number of living acculty? Image: construction of moline. Eax * Attribute (20 x 50 m plot) Image: construction of moline. Record number of living acculty? Image: construction of moline. 50 - 79 cm Image: construction of moline. Record number of living acculty? Includes all special construction of molione. Image: construction of moline. 50 - 79 cm Image: construction of molione. Record number of living tree states which in the size class		IB	BRA reg	gior	<u> </u>				Photo	#			Total in	6 mild	1.11	Lone	U			
BAM Attribute (20 x 50 m plot) # Tree Storme Count Record number of living starting that is along midline. Record number of living starting that is along that is along other along that is along othe along that is along other along that is along other a				D	imen	sions	S		§2)											
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In plot marker. If applicable, orient picket so that perforated rib points along direction of midline.															EEC	:SSF	CF	-	fidend	
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6 30 - 49 cm 411 (b) 414 441 (c)	-		10						(-			3				* ind	ludes	alls	pecles
2 20 - 20 cm 1111 (a) 1111 (b) (c)	-				30 -	49 cm	n	THU)	(6	1	# 27	r	(To				Corymbia, Angophora, Lophostemon and			
Image: Construct on the second of the sec	-				20 -	29 cm	1	111/	-		11/14	-	-	-					and	
13 - 3 30 - 4 30 - 4 5 - 9 cm 10 - 19 cm 10 - 10 cm					1		Start St	HALI	-	11	in H	1 14			\ \					
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2.1 Length of logs (m) in length) Length m) in length) Length m) in length)	-		-		<	5 cm		111	a		1		C	2	n/a					
0.5 If of an diameter, so and the set of t	-				1.00	11 14		100					_	1		140		-	otal	
0.1 Counts must apply to each size class when the number of living tree stems within the size class is < 1					Lenc	th of	loas ((m)	HI IN	NK	THE	H	1				6.1	10	a com	
Constraints can be used when the number of hing the stems which a class is 7 to Examines is should in from the number series: 0, 9, 0, 0, 0, 00, 500 For a multi-stemmed tree, only the largest living stem is included in the count delaws in the stem. Only count, is then presence of a stem containing holdows, oth to count of holdows in the stem. Only count, is then presence of a stem containing holdows, oth to count of holdows in the stem. Only count, is then presence of a stem containing holdows, oth to count of holdows in the stem. Only count, is then presence of a stem containing holdows, oth to count of holdows in the stem. Only count, is then presence of a stem containing holdows, oth to count of holdows and the stems. Only count, is then presence of a stem containing of the stems. The holdow-bearing stem may be a dead stem.					(≥10 0	cm diar	logs (meter, :	(m) >50 cm	441 44	T WA										
For a multi-stemmed tree, only the largest living stem is included in the count/estimate. For hollows, count on our of hollows in the stem. Only count is the presence of a stem containing hollows, not the count of hollows in the stem. Only count is the stem. 1 Litter cover (%) Bare ground cover (%) Cryptogam cover (%) Rock cover (%) 2 2 2 2 2 0 0 0 2 25 23 2 2 0 0 0 0 3 25 23 2 2 0 0 0 0 3 25 23 2 2 2 0 0 0 0 3 25 23 2 0			0.5		(≥10 c in len Coun	cm diar gth) ts must	meter, : t apply	>50 cm	size class w	hen t	the num	lly si	pace of livir	ng tree	stem	s with	In the	size cl		s ≤ 10.
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along the midline. Littler recorded from five 1 m x 1 m plote located on alternate sides and 5 m from the plot midling the midline. Littler cover includes layers, seeds, twigs, barnchiets and branches (less than 10 cm indian dot currently within the midline. Littler cover includes layers, seeds, twigs, barnchiets and branches (less than 10 cm indian dot currently within the midline. Littler cover includes layers, seeds, twigs, barnchiets and branches (less than 10 cm indian dot currently within the midline. Littler cover includes layers, seeds, twigs, barnchiets and branches (less than 10 cm indian dot currently within the present attributes and benchmarks, and for enhancing PCT description (less that may help in determining PCT and Management Zone (optional)). Landform Landform Microrelief Normoc ky Soft Surface Clay - learn Soft Surface Soft Surface Soft Surface Texture Soft Surface Ste Drainage Boort Distance to nearest water and type odd Ste Drainage Boort Distance to nearest water and type Ste Drainage odd Ste Drainage Soft Surface Ste Drainage Soft Surface odd Ste Drainage Ste Drainage Soft Surface Ste Drainage odd Ste Drainage Soft Surface Ste Drainage Soft Surface odd Ste Drainage Ste Drainage Soft Surface Ste Drainage <			0.5 0-1 0	cove	(≥10 c in len Estim from t For a count 1 ster	om diar gth) ts must ates ca the nun multi-	t apply an be u nber se stemm ne pres	>50 cm to each ised wh eries: 10 ied tree ence of ere tree	a size class w en the numb 0, 20, 30, 1 e, only the lan a stem contri is multi-stem	then there is the second secon	the num living tre 00, 300 living ste g hollows	ily suber of the steres and is s, not pllow-	of livir ems wi includ the cr bearin	thin a led in t ount o g sten	class is the cou f hollow n may b	int/est vs in t be a d	. Estin İmate hat ste ead s	size cl nates : . For h em. Or tem.	+0 lass is should ollow aly co	d draw rs unt as
nalong her midline. Little cover includes leaves, seeds, twigs, branchiets and branches (less than 10 cm in diametry) within the condition of these data do not currently within the condition of these data do not currently by hold potential value for future vegetation inleginity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and for enhancing PCT description integrity assessment attributes and benchmarks, and the enhancing PCT description integrity assessment attributes and benchmarks, and the enhancing PCT description integrity assessment attributes and benchmarks, and the enhancing PCT description integrity assessment attributes and benchmarks, and the enhancing PCT description integrity assessment attributes and type integrity assessment attributes and the enhancing PCT description integrity assessment attributes and type integrity assessment attributes and type integrity assessment attributes and the enhancing PCT description integrity assessment attributes and the enhancing PCT description integrity assessment attributes and the enhancing pCT description integrity assessment attributes and type int)	25	0.5 0.1 0		(≥10 c in len Coun Estim from 1 For a count 1 ster er (%)	cm diar gth) ts must ates ca the nun multi-s only th n per tr	t apply an be u nber se stemm te pres ree whe Bare	>50 cm to each ised wh eries: 10 ied tree ence of ere tree e grou	a size class w en the numbro 0, 20, 30, 1 e, only the lar a stem contri is multi-stem nd cover (then ther of l oo, 2 gest l alning mmed	the num living tre 00, 300 living ste g hollows . The ho Cryp	ily suber of the steres and is s, not plow- ptog	of livir ems wi includ t the co bearin jam c	thin a led in t ount o g sten	class is the cou f hollow n may t (%)	s > 10 int/est vs in t be a d	imate hat ste ead s	size cl nates : . For h em. Or tem.	ass is should ollow aly co	d draw rs unt as
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Monitoring Plot 6 Baseline Data.



20th October 2021 Ref: 18OD02VR

Schedule 5 – Baseline Monitoring Data

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Monitoring Plot 7 Baseline Data.



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

Schedule 5 – Baseline Monitoring Data

20th October 2021 Ref: 180D02VR

Schedule 6 – Flora and Fauna Lists

The following lists were collated from site surveys undertaken for the Biodiversity Certification Assessment Report (Travers bushfire and ecology, 2021). Flora observations for the subject site

Family	Scientific name	Common name
Trees		
Mimosaceae	Acacia baileyana	Cootamundra Wattle
Casuarinaceae	Allocasuarina littoralis	Black She-oak
Myrtaceae	Angophora costata	Smooth-barked Apple
Araucariaceae	Araucaria heterophylla*	Norfolk Island Pine
Arecaceae	Archontophoenix cunninghamiana	Bangalow Palm
Casuarinaceae	Casuarina glauca	Swamp Oak
Lauraceae	Cinnamomum camphora*	Camphor Laurel
Myrtaceae	Corymbia gummifera	Red Bloodwood
Eleocarpaceae	Elaeocarpus reticulatus	Blueberry Ash
Myrtaceae	Eucalyptus capitellata	Brown Stringybark
Myrtaceae	Eucalyptus eugenioides	Thin-leaved Stringybark
Myrtaceae	Eucalyptus haemastoma	Scribbly Gum
Myrtaceae	Eucalyptus robusta	Swamp Mahogany
Santalaceae	Exocarpos cupressiformis	Native Cherry
Oleaceae	Fraxinus angustifolia*	Claret Ash
Fabaceae	Gleditsia triacanthos*	Honey Locust
Phyllanthaceae	Glochidion ferdinandi	Cheese Tree
Proteaceae	Grevillea robusta	Silky Oak
Lythraceae	Lagerstroemia indica*	Crepe Myrtle
Arecaceae	Livistona australis	Cabbage Tree Palm
Proteaceae	Macadamia integrifolia	Macadamia Nut
Myrtaceae	Melaleuca decora	-
Myrtaceae	Melaleuca linariifolia	Snow in Summer
Myrtaceae	Melaleuca quinquenervia	Broad-leaved Paperbark
Meliaceae	Melia azedarach var. australasica	White Cedar
Myrsinaceae	Myrsine variabilis	Muttonwood
Pittosporaceae	Pittosporum undulatum	Sweet Pittosporum
Salicaceae	, Populus alba*	White Poplar
Rosaceae	Prunus sp.*	Stone-fruit Tree
Shrubs		
Mimosaceae	Acacia falcata	Sickle Wattle
Mimosaceae	Acacia implexa	Hickory
Mimosaceae	Acacia longifolia var. longifolia	Sydney Golden Wattle
Mimosaceae	Acacia myrtifolia	Red Stem Wattle
Mimosaceae	Acacia suaveolens	Sweet Scented Wattle
Mimosaceae	Acacia terminalis	Sunshine Wattle
Proteaceae	Banksia marginata	Silver Banksia
Proteaceae	Banksia oblongifolia	-
Proteaceae	Banksia spinulosa var. spinulosa	Hairpin Banksia
Fabaceae	Bossiaea heterophylla	Variable Bossiaea
Fabaceae	Bossiaea obcordata	Spiny Bossiaea
Euphorbiaceae	Breynia oblongifolia	Coffee Bush
Caricaceae	Carica papaya	Papaya
Solanaceae	Cestrum parqui*	Chilean Cestrum
	e cou un parqui	

Shrubs (continued	3)		Fabaceae	Pultenaea rosmarinifolia	-
	Chrysanthemoides monilifera		Fabaceae	Pultenaea villosa	-
Asteraceae	subsp. rotundata*	Bitou Bush	Rosaceae	Rhaphiolepis indica*	Indian Hawthorn
Lauraceae	Cinnamomum camphora	Camphor Laurel	Rosaceae	Rubus anglocandicans*	Blackberry
Polygalaceae	Comesperma ericinum	Matchheads	Fabaceae	Senna pendula var. glabrata*	-
Malaceae	Cotoneaster glaucophyllus*	Grey-leaved Cotoneaster	Solanaceae	Solanum mauritianum*	Wild Tobacco
Sapindaceae	Dodonaea triquetra	Hop Bush	Bignoniaceae	Tecoma capensis*	Cape Honeysuckle
Epacridaceae	Epacris pulchella	NSW Coral Heath	Groundcovers		
Fabaceae	Gompholobium latifolium	Broad-leaf Wedge-pea	Asteraceae	Actinotus minor	Lesser Flannel Flower
Proteaceae	Grevillea sericea	Pink Spider Flower	Liliaceae	Agapanthus praecox*	Agapanthus
Proteaceae	Hakea bakerana	-	Asteraceae	Ageratina adenophora*	Crofton Weed
Proteaceae	Hakea laevipes subsp. laevipes	-	Asteraceae	Ageratum houstonianum*	Blue Billy Goat Weed
Proteaceae	Hakea salicifolia	Willow Hakea	Poaceae	Andropogon virginicus*	Whisky Grass
Proteaceae	Hakea sericea	Needlebush	Poaceae	Anisopogon avenaceus	Oat Speargrass
Malvaceae	Hibiscus sp. (cultivar)*	Hibiscus	Poaceae	Aristida vagans	Three-awn Speargrass
Euphorbiaceae	Homalanthus populifolius	Bleeding Heart	Orchidaceae	Arthrochilus prolixus	Elbow Orchid
Myrtaceae	Kunzea ambigua	Tick Bush	Asparagaceae	Asparagus aethiopicus*	Asparagus Fern
Proteaceae	Lambertia formosa	Mountain Devil	Poaceae	Avena fatua*	Wild Oats
Verbenaceae	Lantana camara*	Lantana	Poaceae	Axonopus fissifolius*	Narrow-leafed Carpet Grass
Myrtaceae	Leptospermum juniperinum	Prickly Tea-tree	Restionaceae	Baloskion gracile	-
	Leptospermum polygalifolium		Cyperaceae	Baumea juncea	-
Myrtaceae	subsp. polygalifolium	Tantoon	Asteraceae	Bidens pilosa*	Cobbler's Pegs
Myrtaceae	Leptospermum trinervium	Flaky-barked Tea-tree	Blechnaceae	Blechnum camfieldii	-
Proteaceae	Lomatia silaifolia	Crinkle Bush	Colchicaceae	Burchardia umbellata	Milkmaids
Myrtaceae	Melaleuca ericifolia	Swamp Paperbark	Cyperaceae	Carex appressa	Tall Sedge
Myrtaceae	Melaleuca sieberi	-	Apocynaceae	Catharanthus roseus	Madagascar Periwinkle
Myrtaceae	Melaleuca thymifolia	Thyme Honey Myrtle	Apiaceae	Centella asiatica	Indian Pennywort
Araceae	Monstera deliciosa*	Fruit-salad Plant	Poaceae	Chloris gayana*	Rhodes Grass
Berberidaceae	Nandina domestica*	Sacred Bamboo	Sinopteridaceae	Cheilanthes sieberi	Rock Fern
Apocynaceae	Nerium oleander*	Oleander Bush	Asteraceae	Cirsium vulgare*	Spear Thistle
Oleaceae	Notelaea longifolia	Mock Olive	Commelinaceae	Commelina cyanea	Native Wandering Jew
Ochnaceae	Ochna serrulata*	Mickey Mouse Plant	Asteraceae	Conyza bonariensis*	Flaxleaf Fleabane
Rubiaceae	Opercularia diphylla	-	Asteraceae	Conyza sumatrensis*	Fleabane
Proteaceae	Persoonia lanceolata	Lance-leaved Geebung	Orchidaceae	Cryptostylis erecta	Bonnet Orchid
Proteaceae	Persoonia levis	Broad-leaved Geebung	Orchidaceae	Cryptostylis subulata	Large Tongue Orchid
Proteaceae	Persoonia linearis	Narrow-leaved Geebung	Cucurbitaceae	Cucurbita maxima*	Pumpkin
Euphorbiaceae	Phyllanthus hirtellus	Thyme Spurge	Cyperaceae	Cyathochaeta diandra	-
Phytolaccaceae	Phytolacca octandra*	Inkweed	Poaceae	Cynodon dactylon	Common Couch
Apiaceae	Platysace linearifolia	Narrow-leafed Platysace	Cyperaceae	Cyperus brevifolius*	Mullumbimby Couch
Apocynaceae	Plumeria obtusa*	Frangipani	Cyperaceae	Cyperus eragrostis*	Umbrella Sedge
Fabaceae	Podolobium ilicifolium	Prickly Shaggy Pea	Goodeniaceae	Dampiera stricta	Blue Dampiera
Araliaceae	Polyscias sambucifolia	Elderberry Panax	Phormiaceae	Dianella caerulea var. caerulea	•
Rhamnaceae	Pomaderris sp.	-			Flax Lily Kidnov Wood
Fabaceae	Pultenaea daphnoides	Large-leaf Bush Pea	Convolvulaceae	Dichondra repens	Kidney Weed
Fabaceae	Pultenaea retusa	-	Poaceae	Dichelachne micrantha	Short-hair Plume Grass



Lot 273 DP 755266 15 Mulloway Road, Chain Valley Bay

20th October 2021 Ref: 180D02VR

Schedule 6 – Flora and Fauna Lists

Groundcovers (cor			Groundcovers (cor			Groundcovers (cor	, ,	
oaceae	Echinopogon caespitosus var. caespitosus	Tufted Hedgehog Grass	Poaceae	Echinopogon caespitosus var. caespitosus	Tufted Hedgehog Grass	Poaceae	Echinopogon caespitosus var. caespitosus	Tufted Hedgehog Grass
aceae	Echinopogon ovatus	Forest Hedgehog Grass	Myrsinaceae	Lysimachia arvensis*	Scarlet Pimpernel	Violaceae	Viola hederacea	Ivy-leaved Violet
aceae	Ehrharta erecta*	Panic Veldtgrass	Poaceae	Microlaena stipoides var. stipoides	Weeping Grass	Iridaceae	Watsonia meriana*	Wild Watsonia
stionaceae	Empodisma minus	-	Malvaceae	Modiola caroliniana*	Red-flowered Mallow		Xanthorrhoea latifolia subsp.	
aceae	, Entolasia marginata	Bordered Panic	Davalliaceae	Nephrolepis cordifolia*	Fish-bone Fern	Xanthorrhoaceae	latifolia	-
aceae	Entolasia stricta	Wiry Panic	Poaceae	Oplismenus aemulus	Basket Grass	Apiaceae	Xanthosia pilosa	Woolly Xanthosia
teraceae	Epaltes australis	-	Poaceae	Oplismenus imbecillis	-	Vines		
aceae	Eragrostis brownii	Brown's Lovegrass	Oxalidaceae	Oxalis perennans	-	Pittosporaceae	Billardiera scandens var. scandens	Apple Dumplings
teraceae	Erechtites valerianifolia*	Brazilian Fireweed	Poaceae	Panicum simile	Two Colour Panic	Lauraceae	Cassytha glabella forma glabella	Slender Devil's Twine
teraceae	Euchiton sphaericus	-	Poaceae	Paspalidium distans	-	Ranunculaceae	Clematis aristata	Old Man's Beard
iphorbiaceae	Euphorbia peplus*	Spurge	Poaceae	Paspalum dilatatum*	Paspalum	Fabaceae	Desmodium rhytidophyllum	-
/peraceae	Ficinia nodosa	-	Poaceae	Paspalum urvillei*	Vasey Grass	Luzuriagaceae	Eustrephus latifolius	Wombat Berry
yperaceae	Fimbristylis dichotoma	Common Fringe-rush	Iridaceae	Patersonia glabrata	Leafy Purple-flag	Luzuriagaceae	Geitonoplesium cymosum	Scrambling Lily
peraceae	Gahnia aspera	Saw Sedge	Iridaceae	Patersonia sericea	Wild Iris	Fabaceae	Glycine clandestina	Twining Glycine
peraceae	Gahnia clarkei	Tall Saw-sedge	Sinopteridaceae	Pellaea falcata	Sickle Fern	Fabaceae	Hardenbergia violacea	False Sarsparilla
peraceae	Gahnia sieberiana	Red-fruit Saw-sedge	Poaceae	Pennisetum clandestinum*	Kikuyu	Dilleniaceae	Hibbertia scandens	Climbing Guinea-flower
steraceae	Gamochaeta spicata*	Cudweed	Polygonaceae	Persicaria strigosa	-	Oleaceae	Jasminum polyanthum*	Jasmine
eraniaceae	Geranium homeanum	Northern Cranesbill	Poaceae	Phalaris aquatica*	Phalaris	Fabaceae	Kennedia rubicunda	Dusky Coral Pea
aloragaceae	Gonocarpus tetragynus	Poverty Raspwort	Euphorbiaceae	Phyllanthus tenellus*	-	Caprifoliaceae	Lonicera japonica*	Japanese Honeysuckle
aloragaceae	Gonocarpus teucroides	Raspwort	Thymelaeaceae	Pimelea linifolia subsp. linifolia	Slender Rice Flower	Bignoniaceae	Macfadyena unguis-cati*	Cat's Claw Creeper
alorayaceae	Goodenia hederacea subsp.	Raspwort	Plantaginaceae	Plantago lanceolata*	Ribwort	Bignoniaceae	Pandorea pandorana	Wonga Vine
Goodeniaceae	hederacea	Ivy-leaved Goodenia	Lobeliaceae	Pratia purpurascens	Whiteroot	Apocynaceae	Parsonsia straminea	Common Silkpod
oodonnacodo	Goodenia heterophylla subsp.			Pseuderanthemum variabile	Pastel Flower	Passifloraceae	Passiflora edulis*	Common Passionfruit
Goodeniaceae	heterophylla	Variable Leaved Goodenia	Acanthaceae Dennstaedtiaceae	Pteridium esculentum	Bracken	Smilacaceae	Smilax glyciphylla	Sarsaparilla
Goodeniaceae	Goodenia ovata	-		Richardia brasiliensis*	Mexican Clover	Menispermiaceae	Stephania japonica var. discolor	Snake Vine
laemodoraceae	Haemodorum planifolium	Bloodroot	Rubiaceae			Fabaceae	Wisteria sinensis*	Wisteria
ingiberaceae	Hedychium gardnerianum*	Ginger Lily	Cyperaceae	Schoenus brevifolius	Bog-rush	Epiphytes		Wistona
Villeniaceae	Hibbertia aspera	Rough Guinea Flower	Cyperaceae	Schoenus melanostachys	Black Bog Rush	Orchidaceae	Cymbidium suave	Native Cymbidium
Villeniaceae	Hibbertia linearis	-	Selaginallaceae	Selaginella uliginosa	Swamp Selaginella	Orchiddoodd	Cymbiaian Saave	
raliaceae	Hydrocotyle bonariensis*	Kurnell Curse / Pennywort	Asteraceae	Senecio madagascariensis*	Fireweed	* denotes exotion	r snarias	
raliaceae	Hydrocotyle sibthorpioides	Pennywort	Poaceae	Setaria parviflora*	- Daddula Lucassa			
raliaceae	Hydrocotyle tripartita	Pennywort	Malvaceae	Sida rhombifolia*	Paddy's Lucerne			
steraceae	Hypochaeris radicata*	Flatweed	Solanaceae	Solanum nigrum*	Black Nightshade			
ennstaedtiaceae	Hypolepis muelleri	Harsh Ground Fern	Poaceae	Sporobolus africanus*	Parramatta Grass			
loaceae	Imperata cylindrica var. major	Blady Grass	Asteraceae	Taraxacum officinale*	Dandelion			
uncaceae	Juncus acutus*	-	Orchidaceae	Thelymitra ixioides var. ixioides	Spotted Sun Orchid			
uncaceae	Juncus kraussii	Sea Rush	Poaceae	Themeda triandra	Kangaroo Grass			
uncaceae	Juncus planifolius	Broad Rush	Anthericaceae	Tricoryne elatior	Yellow Autumn-lily			
uncaceae	Juncus prismatocarpus	Branching Rush	Fabaceae	Trifolium repens*	White Clover			
uncaceae	Juncus usitatus	Common Rush	Verbenaceae	Verbena bonariensis*	Purpletop			
steraceae	Lagenifera stipitata		Verbenaceae	Verbena litoralis*	-			
		- Variable Sword-sedge	Asteraceae	Vernonia cinerea var. cinerea	-			
yperaceae	Lepidosperma laterale	Slender Twine-rush	Menyanthaceae	Villarsia exaltata	Yellow Marsh Flower			
estionaceae	Leptocarpus tenax		Apocynaceae	Vinca major*	Blue Periwinkle			
ndsaeaceae	Lindsaea linearis	Screw Fern						
obeliaceae	Lobelia anceps	-				Lot 273 DP 75		
omandraceae	Lomandra cylindrica	Needle Mat-rush				15 Mulloway F	KOad, Pof. 190002\/P	
omandraceae	Lomandra filiformis	Wattle Mat-rush				Chain Valley	вау	
omandraceae	Lomandra longifolia	Spiky-headed Mat-rush			TRAVERS			
omandraceae	Lomandra glauca	-			BUSHFIRE	S	chedule 6 – Flora and F	auna Lists
omandraceae	Lomandra obliqua	Twisted Mat-rush			& ECOLOGY			



	Faun	a observ	vations for	or the stu	udy area	Birds (continued)		March	Nov	June –	Sept	Mammals (continued)
Common name	Scientific name		Method o					2016	2017- Jan 2018	Aug 2018	2020	
Birds		March 2016	Nov 2017-	June – Aug	Sept 2020	Australian Magpie	Cracticus tibicen	ΟW	0 W			Little Forest Bat
		2010	Jan	2018	2020	Australian Owlet-nightjar	Aegotheles cristatus	W	W			Northern Brown Bandicoot
			2018			Scarlet Honeyeater	Myzomela sanguinolenta		W			Short-beaked Echidna
Australian Magpie	Cracticus tibicen	ΟW	ΟW			Southern Boobook	Ninox novaeseelandiae		HPR	0		Southern Forest Bat
Australian Owlet-nightjar	Aegotheles cristatus	W	W			Spotted Turtle-Dove *	Streptopelia chinensis	OW	OW	Ū		Squirrel Glider TS
Australian Raven	Corvus coronoides	W	ΟW	ΟW		Square-tailed Kite TS	Lophoictinia isura	011	011	0		Sugar Glider
Australian Wood Duck	Chenonetta jubata	ΟW	ΟW	W		Striated Heron	Butorides striatus	0		Ŭ		Swamp Rat
Azure Kingfisher	Alcedo azurea		W			Striated Pardalote	Pardalotus striatus	U	W			Swamp Wallaby
Bar-shouldered Dove	Geopelia humeralis		OWQ	W		Sulphur Crested Cockatoo	Cacatua galerita	OW	OW	OW		Reptiles
Black-faced Cuckoo-shrike	Coracina novaehollandiae		ΟW			Superb Fairy-wren	Malurus cyaneus	011	OW	011		Replies
Brown Thornbill	Acanthiza pusilla	ΟW	W	W		Variegated Fairy-wren	Malurus lamberti	OW	000			
Brush Cuckoo	Cacomantis variolosus	•	W			Welcome Swallow	Hirundo neoxena	0	0			
Channel-billed Cuckoo	Scythrops novaehollandiae		0 W						0			Delicate Skink
Chestnut Teal	Anas castanea		0			White-bellied Sea-Eagle	Haliaeetus leucogaster	W				Lace Monitor
Cicadabird	Coracina tenuirostris		Ŵ			White-breasted Woodswallow	Artamus leucorynchus	OPO				Red-bellied Black Snake
Common Koel	Eudynamys scolopacea		W			White-browed Scrubwren	Sericornis frontalis	OW	OW	W		Amphibians
Common Myna *	Acridotheres tristis	ΟW	OWQ			White-throated Needletail	Hirundapus caudacutus	000	0	VV		
Crested Pigeon	Ocyphaps lophotes	0	U W Q					-	W	۱۸/		
Dollarbird		0	ΟW			White-throated Treecreeper	Cormobates leucophaea	0	VV	W		
	Eurystomus orientalis	ΟW		0.144		White-winged Chough	Corcorax melanorhhamphos	0	0144			Broad-palmed Frog
Eastern Rosella	Platycercus eximius	0 W	0 W	0 W		Willie Wagtail	Rhipidura leucophrys	OW	OW	14/		Brown Brood Frog
Eastern Spinebill	Acanthorhynchus tenuirostris	ΟW	ΟW	W		Yellow-faced Honeyeater	Caligavis chrysops	W	W	W		Common Eastern Froglet
Eastern Yellow Robin	Eopsaltria australis	ΟW	ΟW	W		Yellow-tailed Black- Cockatoo	Calyptorhynchus funereus	W	W	W		Dusky Toadlet
Eurasian Coot	Fulica atra	0 W O W	0 00	VV				March	Nov	luna	Cant	Dwarf Tree Frog
Fan-tailed Cuckoo	Cacomantis flabelliformis	0 11	W	W		Mammals		2016	2017-	June – Aug	Sept 2020	Eastern Banjo Frog
Galah		ΟW	0 W	0 W				2010	Jan	2018	2020	Peron's Tree Frog
	Cacatua roseicapilla		0 00						2018			Striped Marsh Frog
Golden Whistler	Pachycephala pectoralis	0	0.144	W		Black Rat *	Rattus rattus		ETQ		0	Wallum Froglet TS
Goose (domestic) *	Anser sp.	0.14/	0 W	0.14/		Brown Antechinus	Antechinus stuartii		Т			Note: * indicates intr
Grey Butcherbird	Cracticus torquatus	0 W	0 W	0 W		Bush Rat	Rattus fuscipes			Т		TS indicates th
Grey Fantail	Rhipidura albiscapa	0	0 W	0 W		Cat *	Felis catus	0	0			All species list
Laughing Kookaburra	Dacelo novaeguineae	ΟW	OWQ	ΟW		Common Brushtail Possum	Trichosurus vulpecula	0	OTQ			noted as:
Leaden Flycatcher	Myiagra rubecula		WPR			Common Ringtail Possum	Pseudocheirus peregrinus	OE	OTQ			PR indicates sp
Lewin's Honeyeater	Meliphaga lewinii	0	W	W		Domesticated Dog *	Canis lupus familiaris	W	OW			likely than not ^{PO} indicates sp
Little Corella	Cacatua sanguinea	OW	W	OW		Eastern Coastal Free-tailed			U			to a moderate to
Little Pied Cormorant	Phalacrocorax	0				Bat TS	Micronomus norfolkensis	U	Ū			species of note.
1.201. AM. 01. 1.2.1	melanoleucos		014/			Lanza Danturin and Dat TS	Miniopterus orianae					F - Nest/roost
Little Wattlebird	Anthochaera chrysoptera	014/	OW			Large Bent-winged Bat TS	oceanensis	U				с H
Magpie-lark	Grallina cyanoleuca	OW	OW	W		Eastern Broad-nosed Bat	Scotorepens orion		UPR			Tracks/scratchings
Masked Lapwing	Vanellus miles	W	W			Eastern Forest Bat	Vespadelus pumilus		Т			FB - Burrow
Musk Lorikeet	Glossopsitta concinna		W	W		Eastern Freetail-bat	Mormopterus ridei		U			G - Crushed cones
Noisy Friarbird	Philemon corniculatus		W			European Red Fox *	Vulpes vulpes		PQ			
Noisy Miner	Manorina melanocephala	OW	OW	OW		Gould's Wattled Bat	Chalinolobus gouldii	U	U			
Olive-backed Oriole	Oriolus sagittatus		W			Greater Broad-nosed Bat TS	Scoteanax rueppellii		UPR			
Pacific Black Duck	Anas superciliosa	ΟW	0			Grey-headed Flying-fox TS	Pteropus poliocephalus		0			
Pheasant Coucal	Centropus phasianinus		WPR	OW		Southern Myotis ^{TS}	Myotis macropus	OU	U			
Pied Currawong	Strepera graculina	W	OW	OW		Little Bent-winged Bat TS	Miniopterus australis	U	U			
Powerful Owl TS	Ninox strenua			W				J				
Rainbow Lorikeet	Trichoglossus haematodus	OW	OW	OW								Lot 273 DP 755266
Rufous Whistler	Pachycephala rufiventris		W									15 Mulloway Road,
Sacred Kingfisher	Todiramphus sanctus		OW								//	Chain Valley Bay
Satin Bowerbird	Ptilonorhynchus violaceus	OW	OW	W						TRA	VERS	
Scaly-breasted Lorikeet	Trichoglossus	OW	OW							BUS	AVERS HFIRE	Schee
Stary-Dreasted LUNKeet	chlorolepidotus	000								& ECO	OLOGY	

		March 2016	Nov 2017- Jan 2018	June – Aug 2018	Sept 2020	
	Vespadelus vulturnus	UPO	U			Ľ
t	Isoodon macrourus		Q			Ĺ
	Tachyglossus aculeatus		Q			Ĺ
	Vespadelus regulus		TU			Ĺ
	Petaurus norfolcensis	WPO				İ.
	Petaurus breviceps	FPR		Т	OW	Ĺ
	Rattus lutreolus		Т			Ĺ
	Wallabia bicolor	Р	OPQ			Ĺ
		March 2016	Nov 2017- Jan 2018	June – Aug 2018	Sept 2020	
	Lampropholis delicata	0	0			
	Varanus varius		Р			
	Pseudechis porphyriacus		0			
		March 2016	Nov 2017- Jan 2018	June – Aug 2018	Sept 2020	
	Litoria latopalmata		W			
	Pseudophryne bibronii	WPO				
	Crinia signifera	W	W	W	OW	
	Uperoleia fusca	W				
	Litoria fallax		W			
	Lymnodynastes dumerilii				W	
	Litoria peronii		W		W	
	Limnodynastes peronii	W	W		OW	
	Crinia tinnula	W			OW	

licates introduced species

dicates threatened species

species listed are identified to a high level of certainty unless otherwise

dicates species identified to a 'probable' level of certainty – more

ndicates species identified to a 'possible' level of certainty – recorded high level of uncertainty usually applied to a threatened

1		D 0 1	147 11 1 11
	H - Hair/feathers/skin	P - Scat	W - Heard call
		Q - Camera	X - In scat
	K - Dead	T - Trapped/netted	Y - Bone/teeth/shell
	O - Observed	U -	Z - In raptor/owl
	OW - Obs & heard call	Anabat/ultrasound	, pellet



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Schedule 6 – Flora and Fauna Lists