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Big Swamp Vegetation Monitoring Report - 2022

Barwon Water

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1. Introduction

1.1 Background

Background

In June 2017, Barwon Water acknowledged that the historic management of groundwater pumping activities had led to a reduction in groundwater contribution from the Lower Tertiary Aquifer into Boundary Creek, a tributary of the Barwon River. This reduction, in conjunction with changes in land use, Millennium Drought, and the complexities associated with management and regulation of a private on-stream dam that controls flows into the lower reaches of Boundary Creek, resulted in the increased frequency and duration of 'cease to flow' and 'acid flush' events along Boundary Creek and Big Swamp – a wetland that is primary fed by inflows from Boundary Creek. This was despite meeting the provisions set out in the ground-water extraction licence(s) that were intended to offset the potential impacts from Barwon Water's groundwater pumping activities on Boundary Creek.

In May 2018, Barwon Water established the community and stakeholder Remediation Working Group to participate in the design and development of a remediation plan for Boundary Creek and Big Swamp. As part of this process, Barwon Water invited the working group to nominate their own technical experts to help support them in their discussions to shape the remediation plan.

In September 2018, Barwon Water's commitment to undertake remedial works was legally strengthened through the issuing of a Ministerial Notice under section 78 of the Water Act, 1989. This notice mandated the development and implementation of the Boundary Creek, Big Swamp and Surrounding Environment – Remediation and Environmental Protection Plan (REPP), which was subsequently approved by Southern Rural Water in February 2020. The objectives of the REPP are twofold:

1. The Boundary Creek and Big Swamp Remediation Plan - That outlines the controls and actions that have and will be implemented within the confirmed areas of impact to:
 - a. Ensure no further harm from Barwon Water's remediation actions
 - b. Protect the water quality and ecological values of the Barwon River
 - c. Improve the water quality and streamflows within Boundary Creek, and
 - d. Improve the ecological values of Big Swamp.
2. The Surrounding Environment Investigation - To investigate whether other areas within the regional groundwater system have been impacted by historical management of groundwater extraction activities at the Barwon Downs borefield.

The selection and assessment of these controls and actions has been guided by an adaptive management approach, which has been conducted in accordance with the endorsed governance framework, involving significant engagement with Southern Rural Water and community and stakeholder groups.

Once all of the success targets outlined in this REPP have been met and any further actions required as part of the surrounding environment investigation are complete, remediation is deemed to have been

completed to the extent practicable, thus, meeting the requirements of the section 78 notice and the cessation of the REPP.

This report has presents the results of the vegetation monitoring conducted within the swamp from 2020 until 2023. The purpose of the result is to determine if an 'improvement in the ecological values with Big Swamp' has, and continues to, occur.

1.2 Success criteria

To inform the preparation of the Boundary Creek and Big Swamp Remediation Plan, a set of interim success criteria were developed to assess 'improvement of ecological values in Big Swamp'. These success criteria were based on ecological conditions within the swamp prior to the millennial drought, and the subsequent fires and associated disturbance which has fundamentally modified the swamps environment and associated ecological values. The success criteria were:

- No further encroachment of terrestrial woodland into the swamp plain.
- No encroachment of Lowland Forest dominant species into areas of Damp Forest.
- No loss of structural or floristic diversity along the main channel and western end of the swamp.
- Increase diversity of understorey species within the swamp plain, with a focus on ferns and sedges.

Subsequent review of the factors which lead to degradation of the swamp from the late 1990s to early 2010s, including those outside of Barwon Waters control such as droughts and modification of surface flows upstream and downstream of Big Swamp, have prompted review of these success criteria. In particular, remediation is not intended to return the swamp to pre-drought conditions, recognising the significant changes that have occurred and the need to facilitate the swamps natural recovery to ensure the establishment of a functional, resilient ecosystem. Based on this evaluation, alternative success criteria are being developed which compare recovery of the swamps ecological condition and function based on post-pumping, drought, and fire events, so these can more accurately assess recovery and progress against worst case condition (circa. 2012). The success criteria will also consider realistic timeframes within which to evaluate the recovery of the swamp as a result of remedial actions undertaken by Barwon Water.

1.3 Study area

The study area covers the wetland and riparian extent of Big Swamp near Yeodene, Victoria within parcels 115A\PP3987 and 1\PS501652 (Figure 1). This 22-hectare area is defined by the hydrological influence of Boundary Creek and the associated groundwater-dependant ecosystem. Areas outside of the immediate influence of the swamp's hydrology, including those upstream/slope of the swamp and downstream of the parcels identified, are not included in the study area.

1.4 Monitoring approach

Monitoring of big swamp is being undertaken to determine how the system is responding to remedial works, and assess the nature of the swamp's recovery. To do this, monitoring is based around the assessment of the vegetation's composition, structural and floristic diversity.

The composition of vegetation within the swamp provides an indication of the communities present, based on structural and floristic characteristics. These communities can be assigned an Ecological Vegetation Class and used to determine potential long-term shifts in the nature of the swamps ecosystem.

Floristic and structural diversity is a measure of the swamps ecological health. This recognises that when disturbance is minimised, or within the bounds of what would be considered normal for the system, complexity in both the type and form of plants will increase over time.

Based on this, a monitoring program was developed that involved:

- 50-metre-long point transects established as part of the ecohydrological assessment (ELA 2019, ELA 2021).
- Flora quadrats in each of the ecohydrological zones to measure floristic diversity (ELA 2021)

1.5 Limitations

The 2022 surveys saw an influx of water into the study area, following a wet winter period. This prevented ELA from accessing several of the monitoring points. These points were surveyed at the start of 2023. This resulted in several transects being surveyed outside of the usual monitoring period. This may influence what flora species were present at the time of survey.

Additionally, the metal stakes for two monitoring points were unable to be found (Transect 8 and Quadrat 5). Both monitoring points were remeasured where the GPS points were located. The stakes were never found. This may have also resulted in a difference in the species recorded within each respective monitoring point.

2. Existing environment

The ecology of Big Swamp is complex and intricately linked to the hydrology of the site. The hydrology is in turn informed by a range of factors including soils, topography and climate, as well as surface water flows, upstream water use and connection with the upper aquifer system. In addition to the aforementioned factors, Boundary Creek is a modified system that, until groundwater levels recover, is reliant on surface level inflows being released from the dam upstream.

From as early as the 1800s, the swamp has been affected by changing land and water use as vegetation clearance and agricultural practices expanded across the region. These activities have continued to the current day. Unfortunately, the cumulative effects have come to a head over the past 20 years with drought conditions triggering intensive ground water extractions and severely limiting surface flows into the swamp. The result was the drying of the swamp through the 1990s and 2000s. While difficult to ascertain, this drying may have commenced prior to groundwater extraction as the installation of MacDonalds Dam upstream would have changed the flow regime along Boundary Creek from the late 1970s. As the water table dropped and drying occurred, both the vegetation and underlying soil layers rich in organic carbon became susceptible to fire, with two major events occurring in 1998 and 2011. The latter fire resulted in an almost complete loss of vegetation cover across the swamp, substantially altering the structure of the communities throughout. Whilst fire was not uncommon within the local vicinity (5 kms of the swamp) (LTU 2023), the aforementioned fires were likely detrimental to the overall health of the swamp. Subsequently, it appears erosion of the swamp plain, driven by large rainfall events combined with exposed post-fire soils, has concentrated surface flows into a secondary channel that now bisects the plain. The resulting eroded sediment appears to have in part accumulated at the eastern end of the swamp in the form of a plug, leading to the formation of a pool of standing water which persists year-round.

An assessment of historical and current vegetation diversity and condition within Big Swamp completed by ELA (2019) identified three distinct ecohydrological zones within the swamp in 2019 (Figure 1). Within each zone, vegetation associations based on known community types and floristic and structural condition were identified. The zones and associations identified in 2019 formed the basis for the success criteria and associated monitoring program, and are discussed further below.

2.1 Swamp Plain

The Swamp Plain is dominated by the recently described Riparian Fern Scrub (EVC A120) vegetation community. Riparian Fern Scrub is endangered and restricted to the Otway Ranges and possibly higher rainfall areas of the Gippsland Plain (Frood unpublished). This community commonly occurs on humous-rich soils and requires near-continuous waterlogging of the soil with shallow, often prolonged, periods of inundation. Where conditions result in frequent or prolonged inundation, sedges and rushes are likely to be dominant in the understorey. Alternatively, drier conditions would see a shift to a fern dominated understorey with emergent trees common.

The majority of this community has been significantly modified by the previous fires. This resulted in the loss of much of the original understorey diversity. The most heavily affected areas are now dominated by Prickly Tea-tree (*Leptospermum continentale*) or Scented Paperbark (*Melaleuca squarrosa*) with occasional patches of Austral Bracken (*Pteridium esculentum*) and/or Red-fruit Saw-

sedge (*Gahnia sieberiana*). More intact patches occur in the far west of the swamp in areas apparently less affected by fires, supporting a diverse ground layer dominated by various sedges such as Tall Sedge (*Carex appressa*) and Tassel Sedge (*Carex fascicularis*). Areas closer to the main channel in the north of the site contained a braided system of channels and supported a higher cover of sedges and ferns, including additional species such as Spreading Rope-rush (*Empodisma minus*) and Scrambling Coral-fern (*Gleichenia microphylla*). Riparian Fern Scrub vegetation associations identified within the swamp are listed in Table 1.

Table 1. Riparian Fern Scrub vegetation associations in Big Swamp

Vegetation associations	Description	Floristic diversity	Structural diversity	Dominant species
High-diversity riparian fern scrub (RFS120-A)	A structurally and floristically complex riparian scrub exhibiting a diversity of fine-scale variation.	High	Moderate-high	Woolly Tea-tree (<i>Leptospermum lanigerum</i>), Tall Sedge (<i>Carex appressa</i>), Tassel Sedge (<i>Carex fascicularis</i>)
Dry riparian fern scrub (RFS120-B)	Dense to open scrub with a ground layer of Bracken, occasional emergent <i>Eucalyptus ovata</i> .	Low	Low-moderate	Prickly Tea-tree (<i>Leptospermum continentale</i>), Scented Paperbark (<i>Melaleuca squarrosa</i>), Austral Bracken (<i>Pteridium esculentum</i>)
Wet riparian fern scrub (RFS120-C)	Dense scrub with little or no understorey, interspersed with narrow channels supporting a low-diversity of sedges and ferns. Occasional emergent <i>Eucalyptus ovata</i> .	Low-moderate	Low-moderate	Prickly Tea-tree (<i>Leptospermum continentale</i>), Scented Paperbark (<i>Melaleuca squarrosa</i>), Red-fruit Saw-sedge (<i>Gahnia sieberiana</i>)

2.2 Woodlands

Woodlands include the treed sections of the swamp across the eastern half of the swamp, as well as Lowland Forest communities immediately bordering the swamp.

Damp woodlands occur on the lower slopes to the south and east of the main swamp, in areas that are unlikely to experience inundation in normal years.

This community was dominated by young Swamp Gum (*Eucalyptus ovata*) with a very species-poor understorey containing Austral Bracken and Red-fruit Saw-sedge. Whilst this community has been described as Damp Sands Herb-rich Woodland due to its current structural and floristic characteristics (which is likely a result of recent fires and changes in hydrology), this vegetation is considered to represent a derived state of the Swamp Gum (*Eucalyptus ovata*) Forest described by Carr and Muir (1994). This community has been identified throughout the region on the lowest slopes in association with braided streams, swampy flats and swamp margins, and is believed to have occupied the southern margin and eastern end of Big Swamp prior to ground-water extraction commencing. Damp Sands Herb-rich Woodland vegetation associations identified within the swamp are listed in Table 2.

Table 2. Damp Sands Herb-rich Woodland vegetation associations in Big Swamp

Vegetation associations	Description	Floristic diversity	Structural diversity	Dominant species
Modified, open Damp Sands Herb-rich Woodland (DSHW3-A)	A highly modified, immature woodland comprised of small stands of recruiting Swamp Gum interspersed with open, treeless areas of Austral Braken.	Low	Low	Swamp Gum (<i>Eucalyptus ovata</i>) and Austral Braken (<i>Pteridium esculentum</i>)
Modified, closed Damp Sands Herb-rich Woodland (DSHW3-b)	A modified, dense woodland of recruiting Swamp Gum. While generally supporting a limited understorey, small pockets of diversity were observed throughout.	Low-moderate	Low-moderate	Swamp Gum (<i>Eucalyptus ovata</i>), Austral Braken (<i>Pteridium esculentum</i>) and Prickly Moses (<i>Acacia verticillata</i>)

Lowland Forest (EVC 16) occurs on the slopes surrounding Big Swamp, upslope from Damp Sands Herb-rich Woodland, in areas unaffected by water-logging or inundation. This floristically diverse community is dominated by Messmate Stringybark (*Eucalyptus obliqua*) and Manna Gum with a high cover of Austral Bracken. Prominent shrubs included Silver Banksia (*Banksia marginata*), Prickly Moses (*Acacia verticillata*) and Sweet Bursaria (*Bursaria spinosa*). Lowland Forest vegetation associations identified adjacent to the swamp are listed in Table 3.

Table 3: Lowland Forest vegetation association within Big Swamp

Vegetation association	Description	Floristic diversity	Structural diversity	Dominant species
Lowland Forest (LF16-A1)	A diverse woodland with varied canopy cover dominating the drained, eastern-most edge of the swamp. Likely colonised the area due to draining of the swamp downstream.	High	High	Brooker's Gum (<i>Eucalyptus brookeriana</i>), Hazel Pomaderris (<i>Pomaderris aspera</i>), Soft Tree-fern (<i>Dicksonia antarctica</i>)

2.3 Main Channel

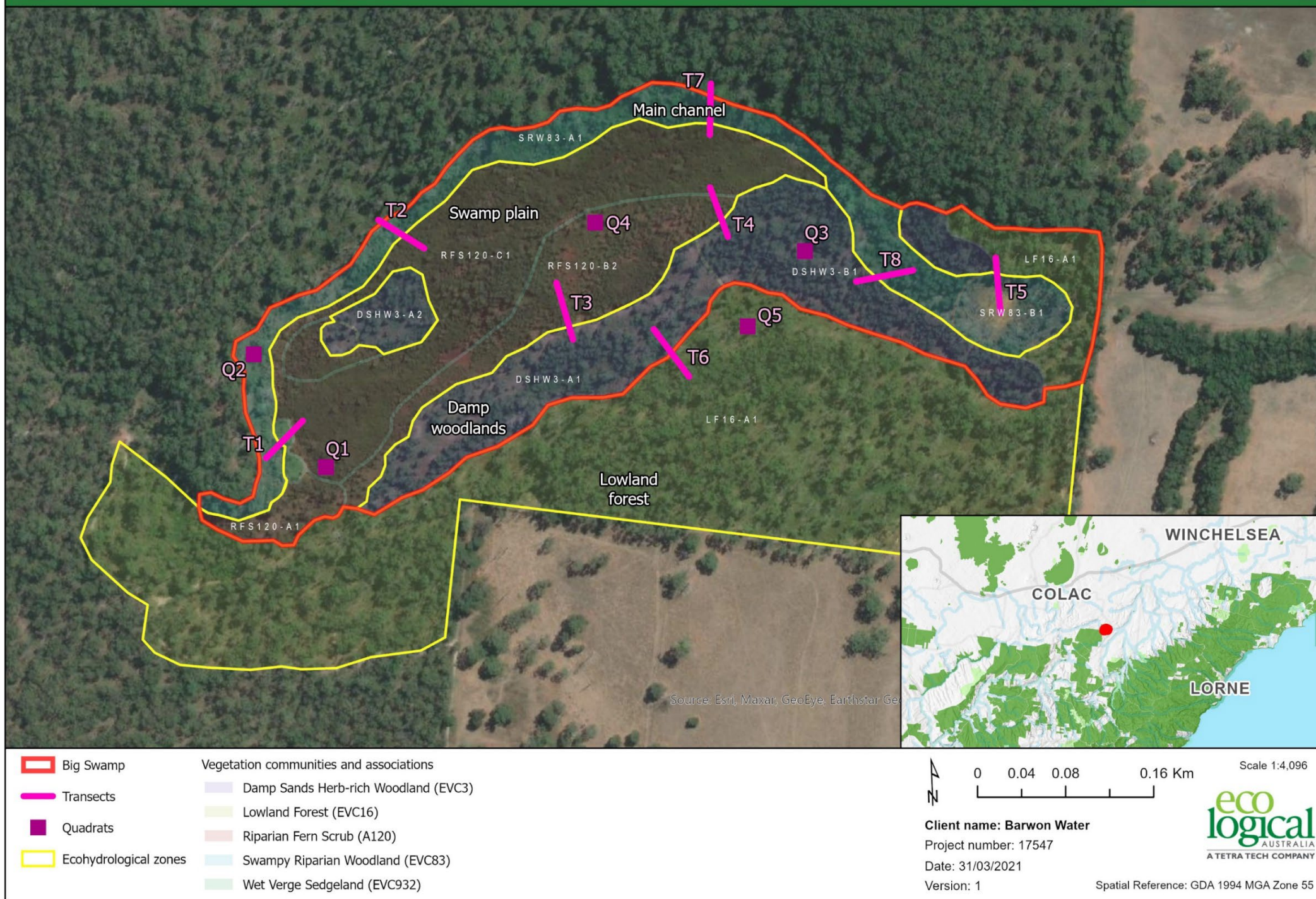
The Main Channel is located along the northern edge of the swamp, and is associated with the Swampy Riparian Woodland community which is reliant on surface flows along the main channel and associated infiltration into the surrounding ground layer. The depth of the channel and variation in elevation along the banks means inundation may have been limited to seasonal floods and localised depressions. Tall forest species less tolerant of inundation, such as Brooker's Gum and Manna Gum, were also present further up the bank as the community shifted into Lowland Forest on the northern edge.

Swampy Riparian Woodland contains a scattered tree layer, dominated by Swamp Gum (*Eucalyptus ovata*), Brooker's Gum (*Eucalyptus brookeriana*) and Manna Gum (*Eucalyptus viminalis*), often over a secondary tree layer. In elevated sections with limited inundation a variety of ground, scrambling and tree ferns were common. The creek channel supported a range of aquatic and semi-aquatic forbs and

sedges. Swampy Riparian Woodland vegetation associations identified within the swamp are listed in Table 4.

Table 4. Swampy Riparian Woodland vegetation associations in Big Swamp

Vegetation associations	Description	Floristic diversity	Structural diversity	Dominant species
High-diversity Swampy Riparian Woodland (SRW83-A)	Following the main channel, this structurally and floristically complex riparian woodland exhibits a diversity of fine-scale variation.	High	High	Swamp Gum (<i>Eucalyptus ovata</i>), Brooker's Gum (<i>Eucalyptus brookeriana</i>), Woolly Tea-tree (<i>Leptospermum lanigerum</i>), Hazel Pomaderris (<i>Pomaderris aspera</i>), Common Water-ribbons (<i>Cycnogeton procerum</i>), Soft Tree-fern (<i>Dicksonia antarctica</i>)
Flooded Swampy Riparian Woodland (SRW83-B)	A flooded section of woodland with only dead stags persisting. Wetland and aquatic vegetation has begun to colonise shallow sections.	Low	Low	N/A



3. Methods

The vegetation assessments were conducted by ELA ecologists Griffin Taylor-Dalton, James Garden and Elise Keane from 16 to 18 November 2022 and the 1 February 2023. Methods for each of the survey tasks are described below.

3.1 Vegetation transects

The vegetation of the study area was sampled using eight 50m long vegetation transects aligned from the perimeter of the swamp into the core, crossing various vegetation community boundaries in the process (Table 5). The start of each transect was permanently marked with a 1500mm high, yellow-capped star picket so that the transects can be used for ongoing monitoring. A photo point was established at the star picket at the start of each transect.

The location of transects were chosen so as to intersect vegetation association boundaries which are considered to align with environmental gradients or features (e.g. inundation, soils etc). This will allow for the future comparison of floristic diversity and structure associated with the differing vegetation associations (and therefore underlying environmental drivers), whilst also providing the basis for tracking gradual changes in the extent of vegetation communities over the long-term.

All flora species at each 25cm interval along the transect were recorded. In addition, the ground attribute occurring at each 25cm point was recorded, including one of either bare ground, bryophytes, litter, water and log. The data provides an overall frequency of each plant species and ground attribute occurring across the transect as well as a snapshot of the distribution of functional plant groups and species across wetland gradients. Transect data has been used to inform the dominant species associated with each vegetation association.

3.1.1 Analysis

The 50 m transects within Big Swamp include the transition point between two vegetation types. The transition point is the key point for monitoring, as it will determine over time whether the vegetation communities in the swamp are encroaching, receding, or transitioning.

Results of species records from each of the 200 monitoring points along the transects in the Big Swamp were converted into a vegetation dominance code, to analyse the overall environment of the transects. Species lists from each of the vegetation types identified in the report Assessment of historical and current vegetation diversity and condition within Big Swamp (ELA 2019) were used to develop a list of key and indicator species, then each point along the transect was compared to this list and coded for dominance of vegetation type. The code choice was manually assigned by an ecologist based first on overstorey, then on the dominant characters of the understorey. When no vegetation was present, or the site contained only weeds, the groundcover recorded was reported (i.e. litter, bryophytes, logs and water). The transect data were randomised to prevent any perceived patterns biasing the ecologists code choice.

The vegetation types and dominant species are given in Appendix A.

Table 5. Transect locations and vegetation types

Quadrat ID	Ecohydrological zone boundary	Vegetation associations	Start coordinates	End coordinates
T1	Main channel to Swamp Plain	High-diversity Swampy Riparian Woodland (SRW83-A) / Wet Verge Sedgeland (WVS932-A) / Wet riparian fern scrub (RFS120-C)	143.6936314°E 38.4232329°S	143.6940257°E 38.4229404°S
T2	Main channel to Swamp Plain	High-diversity Swampy Riparian Woodland (SRW83-A) / Wet riparian fern scrub (RFS120-C)	143.6948870°E 38.4213221°S	143.6953516°E 38.4215672°S
T3	Damp Woodlands to Swamp Plain	Modified, open Damp Sands Herb-rich Woodland (DSHW3-A) / Dry riparian fern scrub (RFS120-B)	143.6968624°E 38.4223555°S	143.6967122°E 38.4218873°S
T4	Swamp Plain	Modified, closed Damp Sands Herb-rich Woodland (DSHW3-B) / Wet riparian fern scrub (RFS120-C)	143.6985101°E 38.4215616°S	143.6983417°E 38.4211540°S
T5	Damp Woodlands to Main Channel	Lowland Forest (LF16-A1) / Flooded Swampy Riparian Woodland (SRW83-B)	143.7012825°E 38.4218103°S	143.7013104°E 38.4222623°S
T6	Damp Woodlands to Lowland Forest	Modified, open Damp Sands Herb-rich Woodland (DSHW3-A) / Lowland Forest (LF16-A1)	143.6977054°E 38.4222951°S	143.6980549°E 38.4226921°S
T7	Main channel to Swamp Plain	High-diversity Swampy Riparian Woodland (SRW83-A) / Wet riparian fern scrub (RFS120-C)	143.6983890°E 38.4203060°S	143.6983593°E 38.4207234°S
T8	Damp Woodlands to Main Channel	Modified, closed Damp Sands Herb-rich Woodland (DSHW3-B) / Flooded Swampy Riparian Woodland (SRW83-B)	143.6998259°E 38.4219640°S	143.7004203°E 38.4218893°S

3.2 Flora species quadrats

Five flora species quadrats were assessed within the Big Swamp and surrounding vegetation (Table 6). The dimensions of each quadrat were 8 x 8 metres. A full floristics survey was completed within each quadrat. Native species were assigned a cover/abundance value using the Braun-Blanquet scale (Table 7) and then allocated lifeforms based on the following:

- Trees
- Large and medium shrubs (>1m)
- Small and prostrate shrubs (<1m)
- Herbs
- Grasses
- Ferns
- Epiphytes
- Scrambler/climbers
- Sedge/rushes

3.2.1 Analysis

Results from the quadrats were analysed for floristic (species) diversity as well as structural diversity. The following paragraphs describe the two different types of analysis employed for this study.

Floristic diversity

Floristic diversity was measured by calculating the sum of the total number of species present within each quadrat.

Structural diversity

Structural diversity was calculated using the Simpsons Index of Diversity (Magurran 2004). The Simpsons Index of diversity measures the probability of selecting two individuals at random that belong to the same lifeform. As the value produced by this index is a probability, the value must range from 0 – 1. By applying the index, a 0 represents no diversity whereas a 1 represents high amounts of diversity.

To calculate the index, the following equation must first be calculated:

$$D_s = \sum n_i(n_i - 1) / N(N - 1)$$

Where:

n_i = total number of organisms of a given species

N = total number of organisms of all species

The result of this equation is then subtracted from 1 to obtain Simpsons Index of Diversity:

$$1 - D_s = \text{Simpsons Index of Diversity}$$

The Braun-Blanquet cover abundance was used as a proxy for the total number of organisms of a given species (Morris et al 2014, Smith & Grassle 1977).

Table 6. Quadrat location and vegetation types

Quadrat ID	Ecohydrological zone	Vegetation association	Marker coordinates	Orientation
Q1	Swamp Plain	Dry riparian fern scrub (RFS120-B)	143.6942694°E 38.4233453°S	North-west
Q2	Main channel	High-diversity Swampy Riparian Woodland (SRW83-A)	143.6935421°E 38.4224026°S	North-west
Q3	Damp Woodlands	Modified, closed Damp Sands Herb-rich Woodland (DSHW3-B)	143.6992889°E 38.4217217°S	North-east
Q4	Swamp Plain	High-diversity riparian fern scrub (RFS120-A)	143.6971363°E 38.4214326°S	North-west
Q5	Lowland forest	Lowland Forest (LF16-A1)	143.6987042°E 38.4223024°S	South-east

Table 7. Braun-Blanquet scale

Score	Cover range	Abundance value
+	<1% Very few individuals	0.1
1	1-5% Many individuals	2.5
2	5-25%	15
3	25-50%	37.5
4	50-75%	62.5
5	75-100%	87.5

3.3 Climate Data

The long-term average annual rainfall for Colac is 727 mm. Both the 2019 and 2020 survey were conducted within years of below average rainfall, whilst the recent surveys saw annual rainfall being higher than the average. Contrastingly to the previous surveys, rainfall was more evenly spread out across the year, rather than any one season contributing a significant proportion of the overall annual rainfall. Climate statistics are given in Table 8 below.

Table 8. Monthly rainfall prior to the 2019, 2020 and 2022 surveys (BOM 2023)

Month	Rainfall (mm)		
	2019	2020	2022*
Rainfall total for 3 months prior to survey (mm)	286.4	277	314.5
Rainfall total for 12 months prior to survey (mm)	509.5	650	806.9

**note – as the 2022 surveys spanned across several months, as such November was the chosen month for this data*

4. Results

4.1 Vegetation transects

4.1.1 Swamp Plain

Transects 1, 2, 3, and 4 traverse the boundary between tree-dominated woodlands and the scrub-dominated swamp plain. Results from 2020 for all transects show that there are a variety of dominances of vegetation type across the different transects.

Transect 1 has been consistently dominated by Riparian Fern Scrub despite fluctuations in species composition over the monitoring period, which can be attributed to changes in species associated with Wet Verge Sedgeland (Figure 2). Notably, species primarily associated with Swampy Riparian Woodland have become more prevalent at this site and potentially indicates the beginning of a shift in the community towards a tree-dominated ecosystem.

Transect 2 has remained largely unchanged over the course of the monitoring period, showing a strong association with Riparian Fern Scrub which has not changed significantly (Figure 3). Changes in the small woodland component of this site tend to indicate fluctuations between Swampy Riparian Woodland and Damp Sands Herb-rich Woodland rather than a trend away from a scrub dominated system.

Transect 3 has seen an increase in the abundance of Damp-sands Herb-rich Woodland across the duration of the three monitoring seasons (Figure 4). This can be attributed to the recovery of vegetation post-fire, with areas previously without vegetation cover (i.e. bareground/litter/logs) slowly disappearing. The small decrease in Riparian Fern Scrub may also indicate a broader trend towards a more woodland dominated community in this part of the swamp.

Transect 4 showed a very similar trend as Transect 3, with the exception that the increasing abundance in Damp-sands Herb-rich Woodland appears to be driven by a shift away from Riparian Fern-scrub rather than post-fire recovery (Figure 5).

Overall, the results of the transect analysis in the swamp plain show that post-fire recovery continues however in some parts of the swamp, this includes a shift in vegetation composition towards woodland dominated ecosystems.

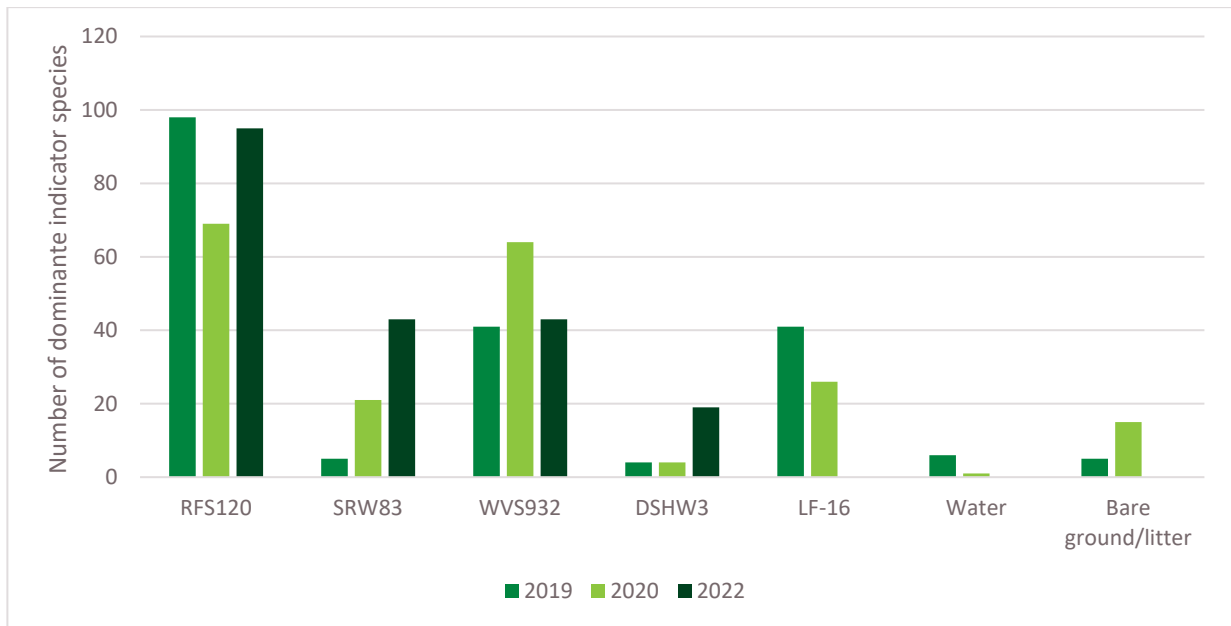


Figure 2. Transect 1 vegetation type dominance across the 2019, 2020 and 2022 monitoring periods

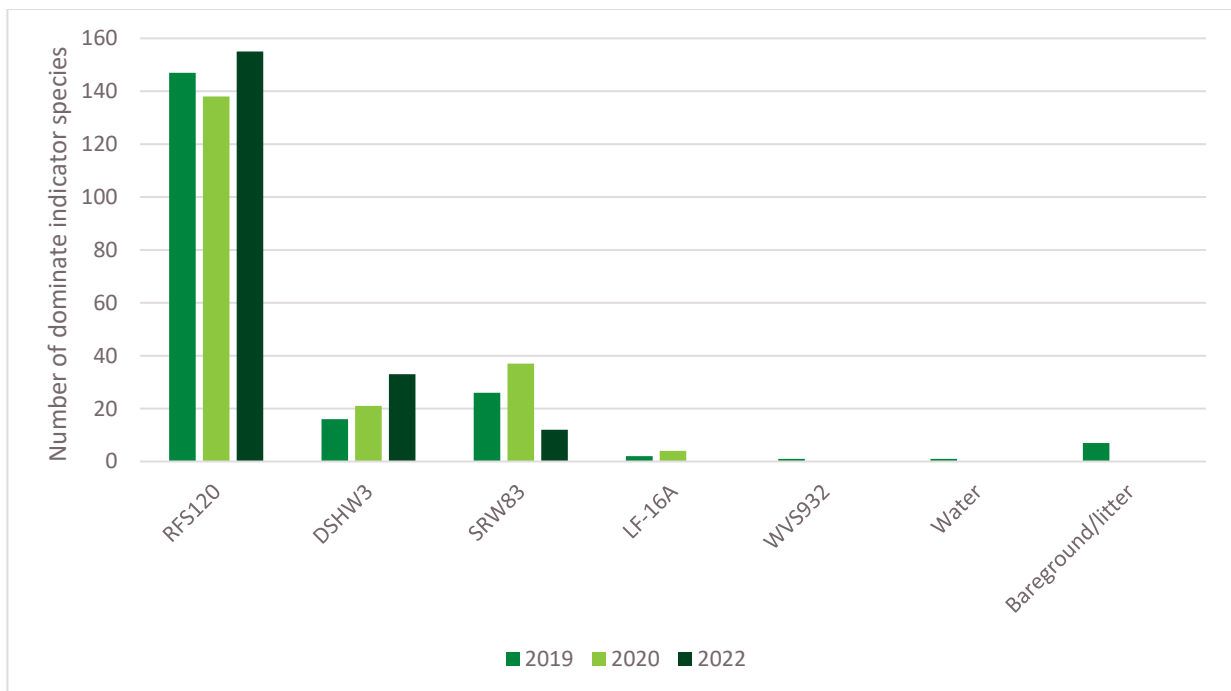


Figure 3. Transect 2 vegetation type dominance across the 2019, 2020 and 2022 monitoring periods

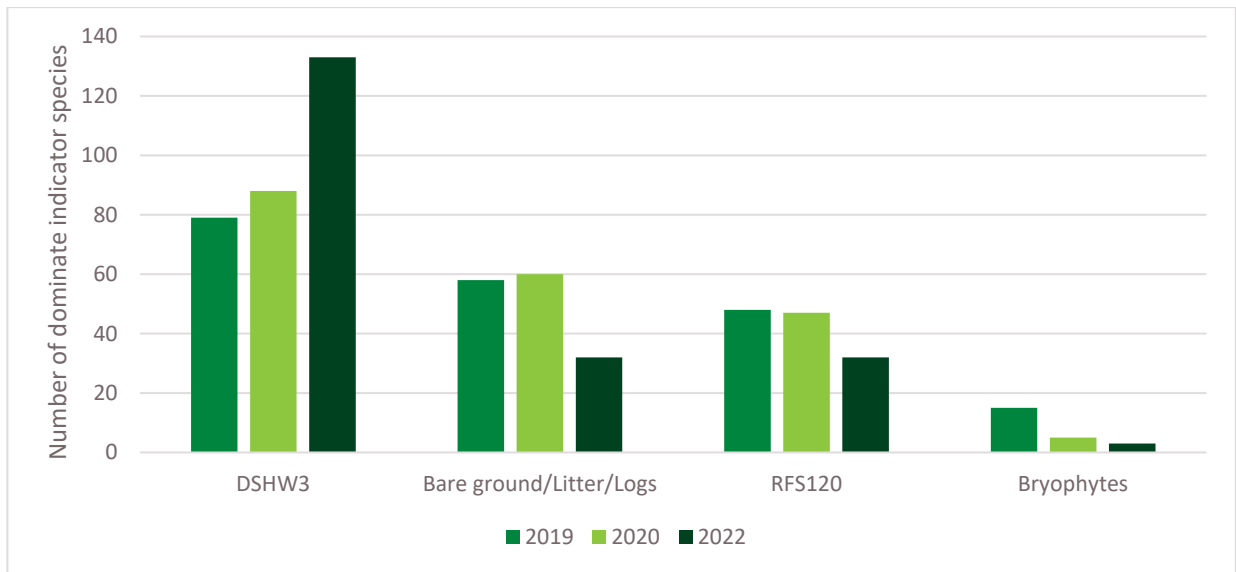


Figure 4. Transect 3 vegetation type dominance across the 2019, 2020 and 2022 monitoring periods

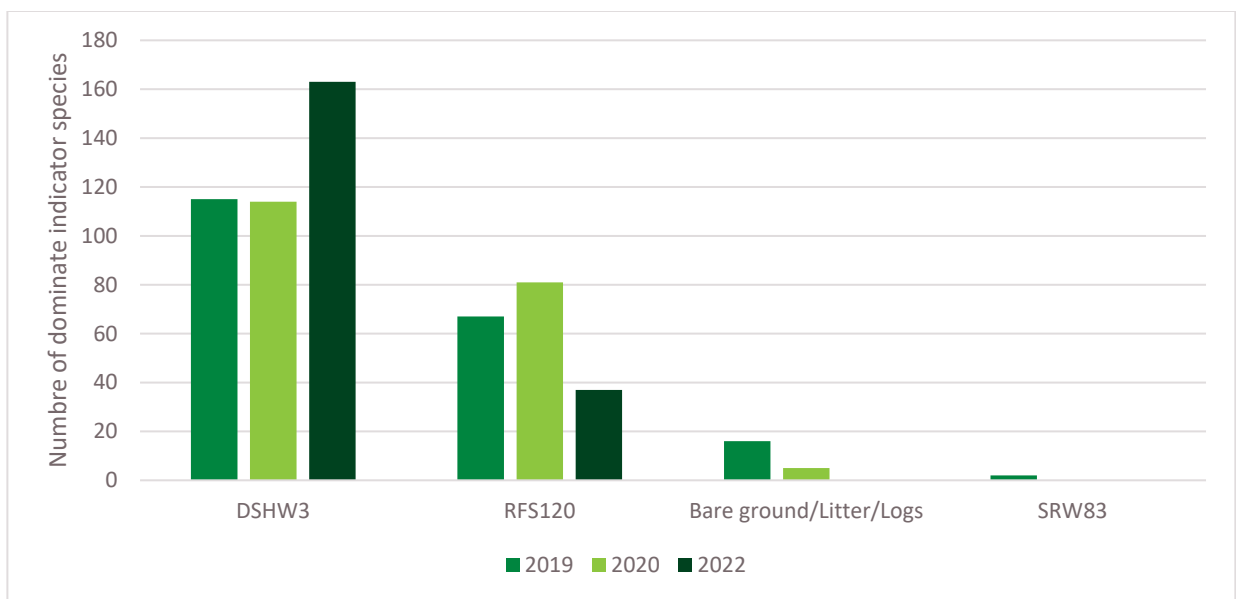


Figure 5. Transect 4 vegetation type dominance across the 2019, 2020 and 2022 monitoring periods

4.1.2 Woodlands

Transect 6, which is located approximately 20-80m to the south-east of the swamp plain, was installed in 2020 to monitor the transitional zone between the Lowland Forest and Damp Sands Herb-rich Woodland communities (Figure 6).

The results from this transect continue to indicate that damp woodlands is the dominant community however, the 2022 results also indicate a reduction in the number of damp woodlands species compared to the 2019 results. This reduction coincided with an increase in the number of lowland forest species and a decrease in the proportional area without vegetation cover.

Whilst data is insufficient to draw substantial conclusions, the analysis suggests a potential shift in the composition of this site towards Lowland Forest.

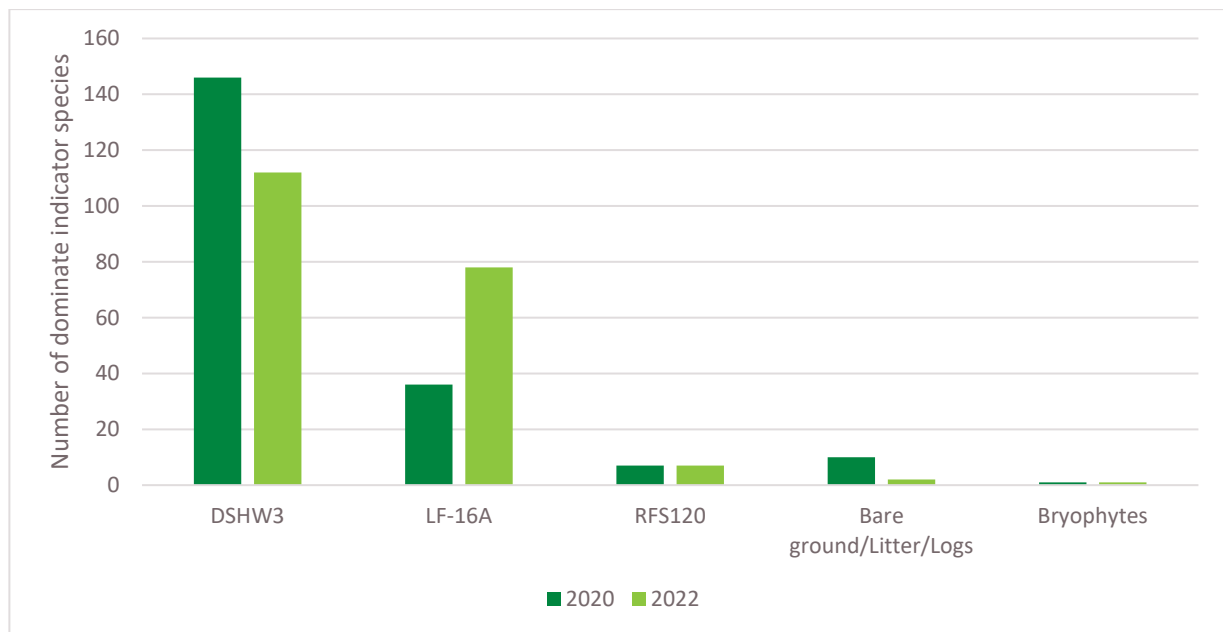


Figure 6. Transect 6 vegetation type dominance across the 2020 and 2022 monitoring periods

4.1.3 Main Channel

Transects 5, 7 and 8 intersect the main channel and adjacent swamp plain and woodland vegetation.

Results from transect 5 have remained similar across the entirety of the survey period (Figure 7). Water dominates this transect as the end extends into the large pond at the east of the swamp. No particular vegetation community dominated beyond the edge of the water, with all represented in part in the floristic diversity of the site.

Transect 7 has remained largely consistent across the two years it has been surveyed (Figure 8), being dominated by Riparian Fern Scrub, which increased whilst Swampy Riparian Woodland has declined. Whilst data is insufficient to draw substantial conclusions, the change observed may suggest a slow shift away from woodland communities to wetter scrub dominated communities is occurring at this location.

Transect 8 saw an increase in the overall abundance of Damp Sands Herb-rich Woodland and a sharp decline in Swampy Riparian Woodland (Figure 9). Based on the limited results, the change observed may suggest a slow shift towards drier woodland communities at this location.

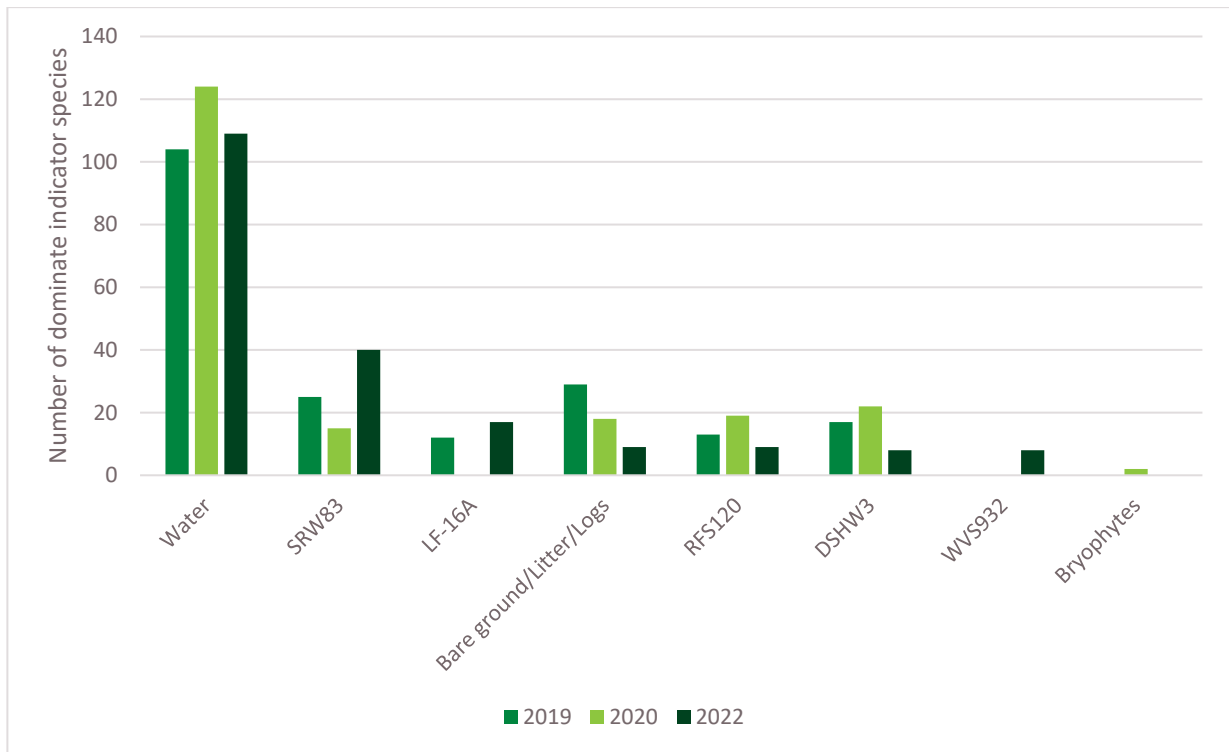


Figure 7. Transect 5 vegetation type dominance across the 2019, 2020 and 2022 monitoring periods

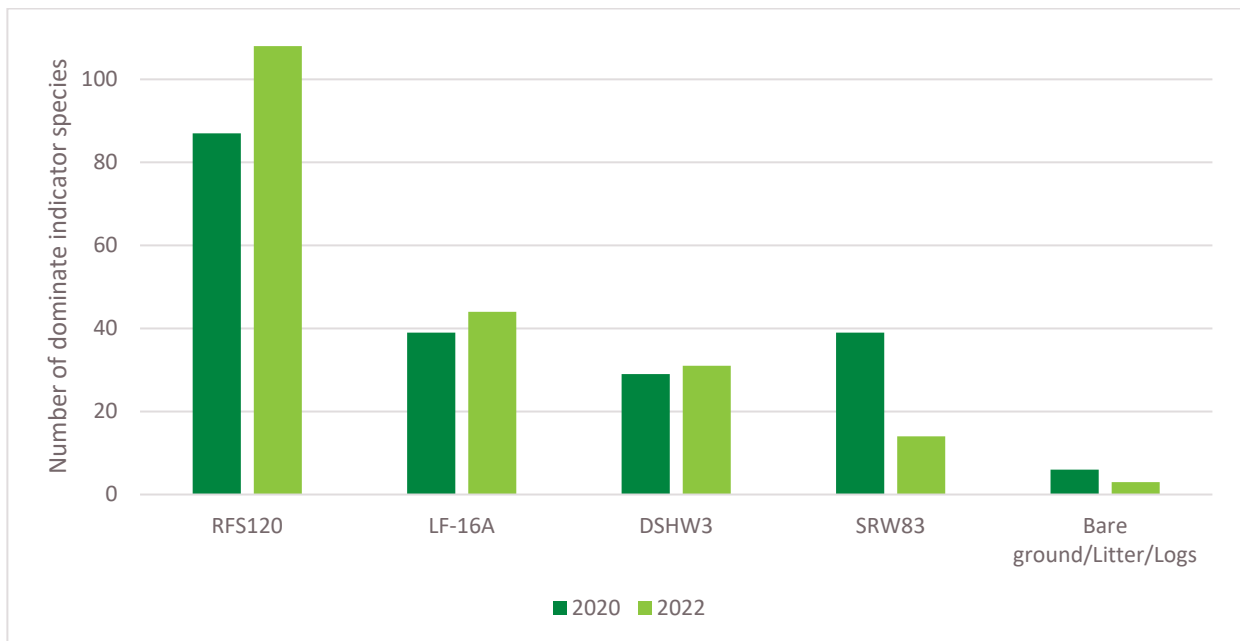


Figure 8: Transect 7 vegetation type dominance across the 2020 and 2022 monitoring periods

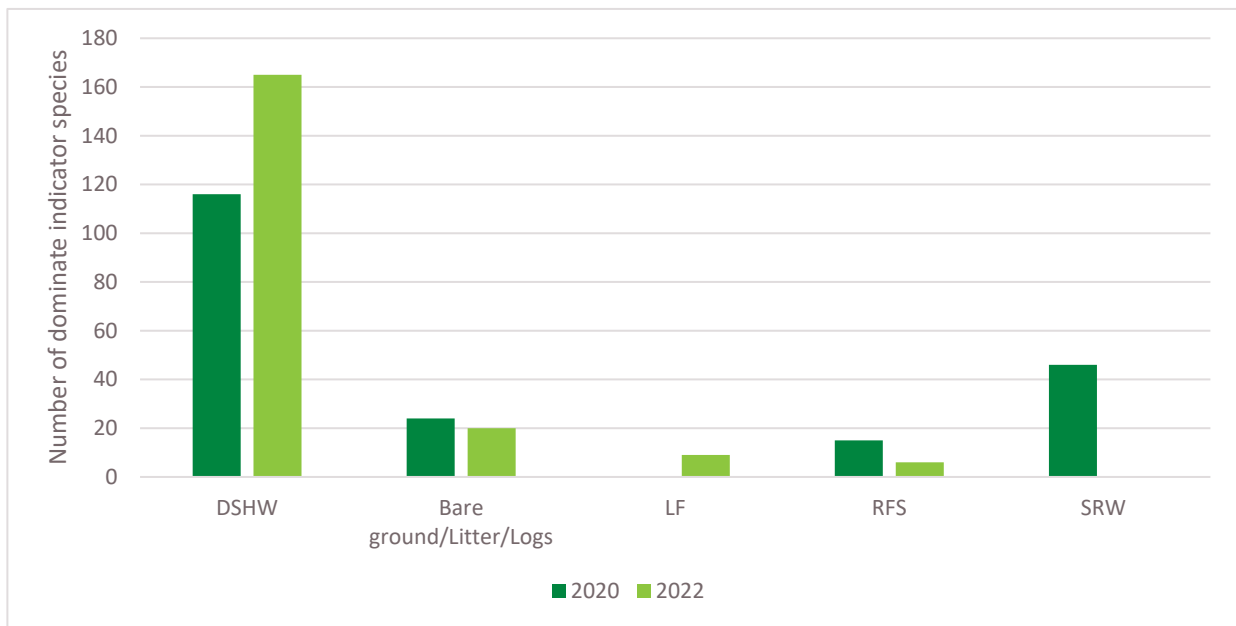


Figure 9: Transect 8 vegetation type dominance across the 2020 and 2022 monitoring periods

4.2 Floristic quadrats

4.2.1 Floristic diversity

Fluctuations in flora species diversity have been observed across the survey period (Figure 10), with quadrats 1, 3 and 5 reporting a reduction in the number of flora species and quadrats 2 and 4 reporting an increase in the number of flora species compared to the 2020 results. It is noted that differences recorded in quadrat 5 may also be attributable to slight differences in the monitoring location given the initial monitoring point could not be relocated. Changes in species diversity could also be attributed to natural seasonal variation or the influx of water following a wet winter period.

4.2.2 Structural diversity

Similar to species diversity, there has been a fluctuation in structural diversity observed across the survey period (Figure 11), with decreased observed in quadrats 1, 3 and 5 and increases observed in quadrats 2 and 4. It is noted that differences recorded in quadrat 5 may also be attributable to slight differences in the monitoring location given the initial monitoring point could not be located.

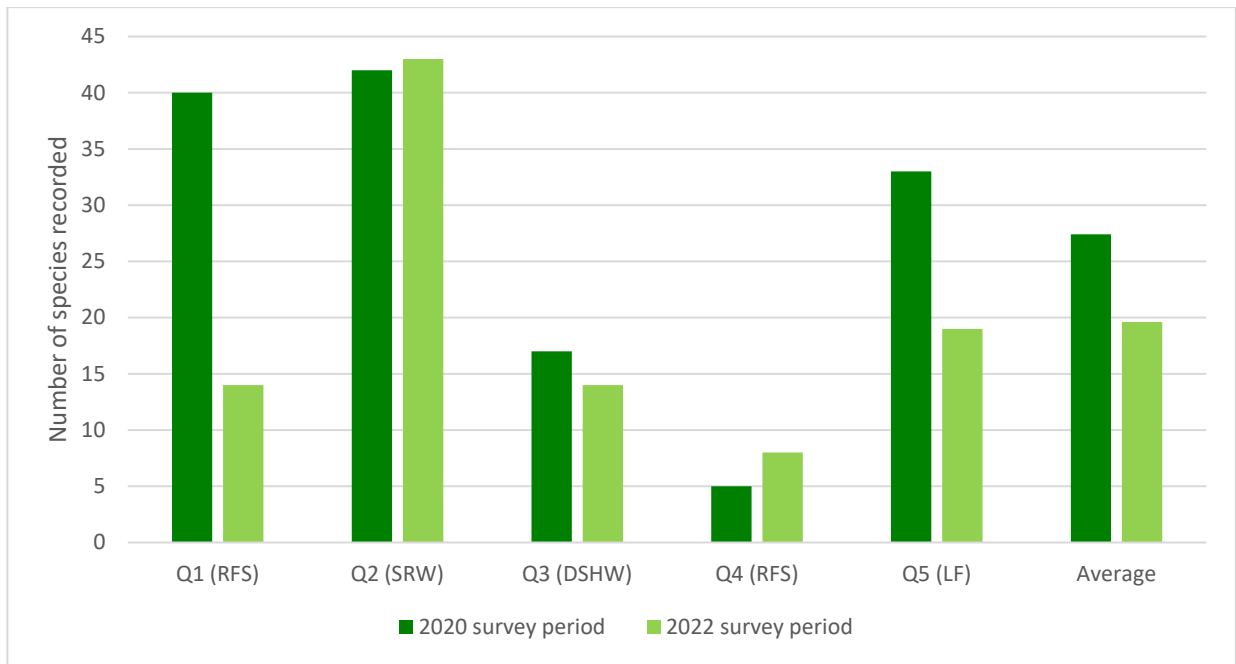


Figure 10. Floristic diversity across the five quadrat plots

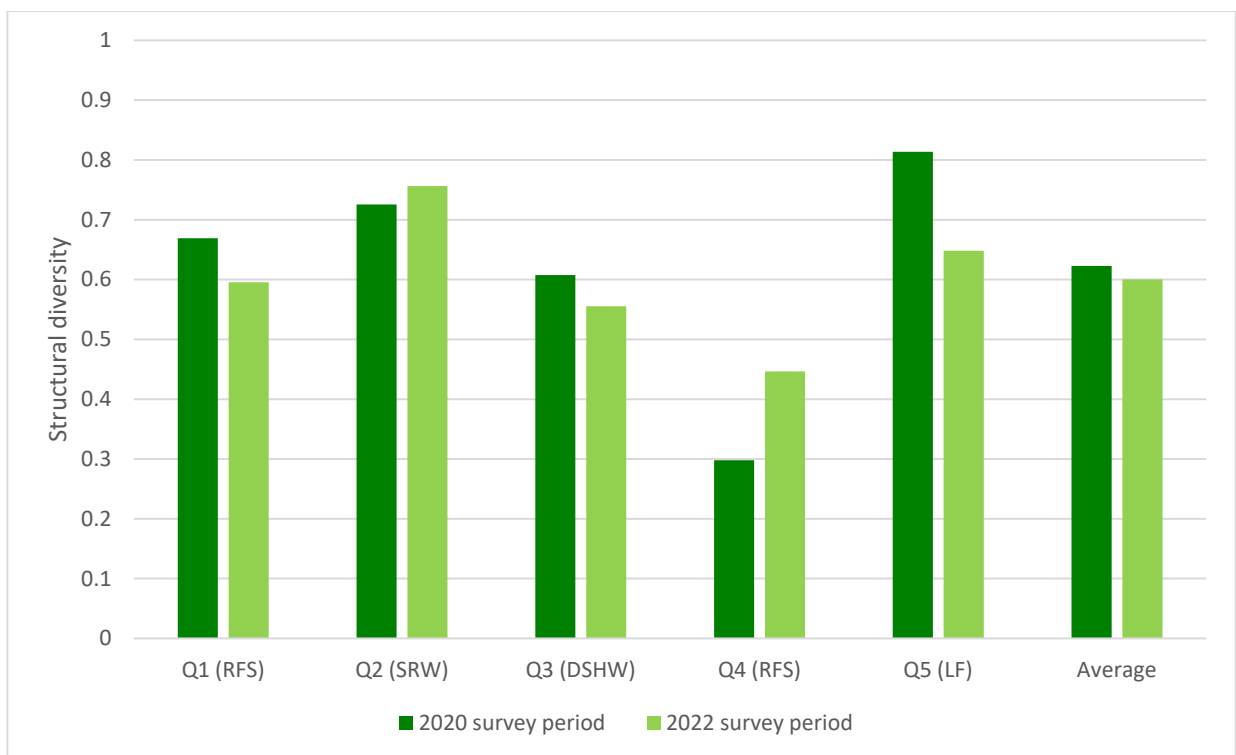


Figure 11. Structural diversity across the five quadrat plots

5. Discussion

The following provides a discussion of the findings of the 2022 vegetation monitoring assessment considering the ‘improve the ecological values of Big Swamp’ objective as set out in the REPP.

Whilst the following discussion is primarily based on the monitoring period (i.e. 2019 – 2023), it must be recognised that the swamp has seen substantial recovery of vegetation since remediation began post drought and fires (circa 2012). Whilst data is limited, a transect completed by Jacobs (2015) recorded only four native species along a similar alignment to Transect 3, which based on 2023 data now has 11 different native species (Appendix D).

5.1 Vegetation communities

Results indicate that whilst recovery in the swamp continues, the extent and composition of vegetation continues to change post-fires. Several of the transects (namely T1 and T4) indicate a continuing shift to woodland dominated communities within the swamp plain. This is unsurprising given the significant disturbance that has occurred (e.g. drought, fires and subsequent erosion) which has altered the surface and sub-surface hydrology in the swamp and lead to some areas becoming wetter and others drier. A continuing trend towards woodlands and away from scrubs is likely to continue for several decades as the ecosystem adjusts to the changes in the base environment.

This does not necessarily indicate that ecological values are not improving in the swamp, but rather the ecosystem as a whole is adapting to the new environmental conditions and hydrological regimes post-fires. This ‘rebalancing’ of the system is likely to take many decades and it is reasonable to expect that, provided further severe drying and any associated disturbance is minimised, this process will see an improvement in the ecological values of the swamp as vegetation communities mature and stabilise.

5.2 Floristic diversity

Overall, the swamp experienced a minor decline in floristic diversity compared to the 2020 results. The most notable decline is associated with the western end of the swamp, and can potentially be attributed to the extensive flooding present for extended periods over the past several years. A shift in the species composition away from a diverse grass and herb rich understorey to one dominated by sedges was observed in the field and can be seen in the data (Appendix E). The potential reason for the decline associated with quadrat 5 (in lowland forest outside the swamp’s extent) may be associated with the difficulties in relocating the quadrat and should be reviewed carefully in future monitoring reports.

Elsewhere floristic diversity has increased, albeit marginally. Of note is the improvement seen in the centre of the swamp and which had some of the highest levels of disturbance due to fires, subsidence and erosion. Whilst minimal, the improvement indicates species are recolonising the swamp plain and suggests a positive trend towards recovery.

Further monitoring data is required to better constrain potential natural fluctuations from long-term trends.

5.3 Structural diversity

Overall, the monitoring data indicates that there has not been a significant change in structural diversity within the swamp since 2020. Of note, quadrat 4 in the centre of the swamp has shown a marked improvement in structure and, like the improvement in floristic diversity in this location, indicates the community is still recolonising this site and vegetation structure maturing.

The decline in structural diversity in quadrat 5 aligns with the change in floristic diversity and is surprising within a community type that did not experience significant disturbance, as the rest of the swamp did, and is relatively mature and stable. Given the marker post for this quadrat had been removed/was unable to be located, the change likely represents issues with sampling due to the quadrat being located.

Further monitoring data is required to better constrain potential natural fluctuations from long-term trends.

6. Conclusion

6.1 REPP objective

When considering the REPP's objective to 'improve the ecological values of Big Swamp', the monitoring data indicates a significant improvement has not yet occurred since 2019. This is unsurprising given that monitoring is still in the early stages and conditions in the swamp continue to fluctuate from year to year. Whilst a decline in floristic diversity has been recorded in some locations, a significant decline in the floristic or structural diversity across the entirety of the swamp cannot be seen, and the sites most impacted by past disturbance are showing improvements (e.g. quadrat 4 in the centre of the swamp).

It should also be recognised that the swamp has seen a significant recovery in the cover and structure of vegetation post drought and fires (circa. 2012), with a previous transect recorded in 2015 showing less than half the floristic diversity now being recorded at the same location. In this context, the swamp has shown an improvement in the ecological values and ongoing monitoring since 2019 should be used to provide an indication of how this post-fire recovery continues towards a mature, resilient and diverse ecosystem in coming years.

Encroachment of woodland communities, which may not have been predominantly associated with the swamp prior to impacts, should continue to be monitored. Whilst there is not currently a risk of existing communities disappearing from the swamp entirely, those predominantly associated with the swamp plain (i.e. riparian fern scrub) appear to be reducing in extent. If this trend were to continue, it may constitute a decline in the 'ecological values' of the swamp in the long-term.

Further monitoring over coming years will provide better insight into long-term changes within the swamp.

6.2 Development of success criteria

Subsequent review of the factors which lead to degradation of the swamp from the late 1990s to early 2010s, including those outside of Barwon Waters control such as droughts and modification of surface flows upstream and downstream of Big Swamp, have prompted further review of the interim success criteria. In particular, remediation is not intended to return the swamp to pre-drought conditions, recognising the significant changes that have occurred and the need to facilitate the swamps natural recovery to ensure the establishment of a functional, resilient ecosystem.

Taking into consideration the results of monitoring to date, and previous studies, the final success criteria should take into account:

- Changes in the understanding of the factors which have resulted in impacts to the swamp, including irreversible changes within the catchment (such as land clearing and modification of waterways).
- The fundamental changes to the swamp's environment that occurred between late 1990s and early 2010s, including drying of the swamp, fires, loss of organic biomass and altered soil structure, and erosion of the swamp plain and subsequent changes in surface/sub-surface hydrology.

- The issues associated with using pre-drought conditions as a baseline for success. Success criteria based on post-fire conditions in the swamp as the baseline provide a more realistic measure of ecosystem recovery and improvement in values.
- Realistic timeframes linked to the vision and objectives of the remediation plan.

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Appendix A Vegetation Associations

Vegetation Association	Vegetation Code	Indicator species and groups
Lowland Forest	LF16 - A	Dominant species <i>Pomaderris aspera</i> <i>Eucalyptus brookeriana</i> <i>Dicksonia antarctica</i> <i>Eucalyptus obliqua</i> <i>Poa sieberiana</i> <i>Eucalyptus viminalis</i> Secondary species <i>Acacia melanoxylon</i>
Modified, open Damp Sands Herb-rich Woodland	DSHW3-A	Dominant species <i>Eucalyptus ovata</i> and <i>Pteridium esculentum</i> subsp. <i>esculentum</i> in combination Secondary species <i>Tetrarrhena juncea</i> in combination
Modified, closed Damp Sands Herb-rich Woodland	DSHW3-B	Dominant species <i>Eucalyptus ovata</i> <i>Pteridium esculentum</i> subsp. <i>esculentum</i> <i>Acacia verticillata</i> Secondary species <i>Lepidosperma elatius</i> <i>Tetrarrhena juncea</i> in combination
High-diversity Swampy Riparian Woodland	SRW83-A	Dominant species <i>Eucalyptus ovata</i> <i>Eucalyptus brookeriana</i> <i>Pomaderris aspera</i> <i>Dicksonia antarctica</i> <i>Cycnogeton procerum</i> s.s. Secondary species <i>Gynatrix pulchella</i>
Flooded Swampy Riparian Woodland	SRW83-B	<i>Juncus procerus</i> on water
High-diversity riparian fern scrub	RFS120-A	Dominant species <i>Leptospermum myrsinoides</i> <i>Carex appressa</i> <i>Carex fascicularis</i>

Vegetation Association	Vegetation Code	Indicator species and groups
Dry riparian fern scrub	RFS120-B	Dominant species <i>Leptospermum continentale</i> <i>Melaleuca squarrosa</i> <i>Pteridium esculentum</i> subsp. <i>esculentum</i> Secondary associations Where any <i>Melaleuca</i> or <i>Leptospermum</i> shrubs are recorded alone Where <i>Pteridium esculentum</i> subsp. <i>esculentum</i> is recorded alone.
Wet riparian fern scrub	RFS120-C	<i>Leptospermum continentale</i> <i>Melaleuca squarrosa</i> <i>Gahnia sieberiana</i> Secondary associations Where <i>Gahnia sieberiana</i> is recorded alone
Wet verge sedgeland	WVS932-A	<i>Carex appressa</i> <i>Carex fascicularis</i> Secondary associations Where these species are recorded alone

Appendix B Species list

Table A1. Flora recorded within the monitoring points of Big Swamp

Origin	Scientific name	Common name	Lifeform	VROT	FFG
	<i>Acacia melanoxylon</i>	Blackwood	LS		
	<i>Acacia stricta</i>	Hop Wattle	LS		
	<i>Acacia verticillata</i>	Prickly Moses	LS		
	<i>Acaena novae-zelandiae</i>	Bidgee-widgee	H		
	<i>Alternanthera denticulata</i> s.s.	Lesser Joyweed	H		
*	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	G		
	<i>Banksia marginata</i>	Silver Banksia	LS		
	<i>Blechnum minus</i>	Soft Water-fern	F		
	<i>Blechnum nudum</i>	Fishbone Water-fern	F		
	<i>Carex appressa</i>	Tall Sedge	SR		
	<i>Carex fascicularis</i>	Tassel Sedge	SR		
	<i>Cassytha glabella</i>	Slender Dodder-laurel	SC		
*	<i>Centaurium erythraea</i>	Common Centaury	H		
*	<i>Cerastium glomeratum</i> s.s.	Sticky Mouse-ear Chickweed	H		
*	<i>Cirsium vulgare</i>	Spear Thistle	H		
	<i>Clematis aristata</i>	Mountain Clematis	SC		
	<i>Coprosma quadrifida</i>	Prickly Currant-bush	LS		
	<i>Cynogeton procerum</i>	Common Water-ribbons	H		
	<i>Dichondra repens</i>	Kidney-weed	H		
	<i>Eucalyptus brookeriana</i>	Brooker's Gum	T		
	<i>Eucalyptus obliqua</i>	Messmate Stringybark	T		
	<i>Eucalyptus ovata</i> var. <i>ovata</i>	Swamp Gum	T		
	<i>Eucalyptus viminalis</i> subsp. <i>viminalis</i>	Manna Gum	T		
	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge	SR		
*	<i>Galium aparine</i>	Cleavers	H		
	<i>Galium murale</i>	Small Goosegrass	H		
	<i>Geranium potentilloides</i>	Soft Crane's-bill	H		
	<i>Gynatrix pulchella</i> s.s.	Hemp Bush	LS		
*	<i>Holcus lanatus</i>	Yorkshire Fog	H		
	<i>Hydrocotyle hirta</i>	Hairy Pennywort	H		
	<i>Hydrocotyle pterocarpa</i>	Wing Pennywort	H		
*	<i>Hypochoeris radicata</i>	Flatweed	H		
	<i>Hypolepis ragulosa</i>		F		

Origin	Scientific name	Common name	Lifeform	VROT	FFG
	<i>Isolepis</i> sp.	Club-sedge	SR		
	<i>Juncus pauciflorus</i>	Loose-flower Rush	SR		
	<i>Juncus procerus</i>	Tall Rush	SR		
	<i>Lepidosperma elatius</i>	Tall Sword-sedge	SR		
	<i>Leptospermum continentale</i>	Prickly Tea-tree	LS		
	<i>Leptospermum lanigerum</i>	Woolly Tea-tree	LS		
	<i>Lomandra longifolia</i> subsp. <i>longifolia</i>	Spiny-headed Mat-rush	SR		
	<i>Lycopus australis</i>	Australian Gipsywort	H		
	<i>Melaleuca squarrosa</i>	Scented Paperbark	LS		
	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	G		
	<i>Olearia lirata</i>	Snowy Daisy-bush	LS		
	<i>Oxalis exilis</i>	Shady Wood-sorrel	H		
	<i>Persicaria decipiens</i>	Slender Knotweed	H		
*	<i>Poa annua</i>	Annual Meadow-grass	G		
	<i>Poa tenera</i>	Slender Tussock-grass	G		
	<i>Pomaderris aspera</i>	Hazel Pomaderris	LS		
	<i>Prostanthera lasianthos</i>	Victorian Christmas Bush	LS		
	<i>Pteridium esculentum</i>	Austral Bracken	F		
*	<i>Rubus anglocandicans</i>	Common Blackberry	SC		
	<i>Senecio glomeratus</i>	Annual Fireweed	H		
	<i>Senecio minimus</i>	Shrubby Fireweed	H		
	<i>Senecio prenanthoides</i>	Common Fireweed	H		
*	<i>Sonchus oleraceus</i>	Sow-thistle	H		
*	<i>Stellaria media</i>	Chickweed	H		
	<i>Tetrarrhena juncea</i>	Forest Wire-grass	G		
	<i>Todea barbara</i>	Austral King-fern	F		
	<i>Viola hederacea</i> sensu Entwistle (1996)	Ivy-leaf Violet	H		

Appendix C Photo log

Table 9: Photo log for the transects within Big Swamp

TransectsTransect ID	2019	2020	2022
T1			
T2			
T3			
T4			

TransectsTransect ID	2019	2020	2022
T5			
T6			
T7			
T8			

Table 10: Photo log for the quadrats within Big Swamp

Quadrat	2020	2022
Q1		
Q2		
Q3		
Q4		
Q5		

Appendix D Transect results

Table B1. Results of vegetation transects undertaken in Big Swamp in November 2020

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
0.25	<i>Gahnia sieberiana</i> , <i>Lepidosperma elatius</i> , <i>Eucalyptus ovata</i>	Litter	<i>Hydrocotyle hirta</i> , <i>Stellaria media</i> , <i>Lepidosperma elatius</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i> , <i>Microlaena stipoides</i> var. <i>stipoides</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus obliqua</i> , <i>Lysimachia arvensis</i> , <i>Lomandra longifolia</i> subsp. <i>longifolia</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Poa tenera</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i>	Litter	<i>Holcus lanatus</i> , <i>Eucalyptus ovata</i>	Litter
0.5	<i>Gahnia sieberiana</i> , <i>Lepidosperma elatius</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Holcus lanatus</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Microlaena stipoides</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Lysimachia arvensis</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Poa tenera</i> , <i>Eucalyptus viminalis</i>	Litter	<i>Holcus lanatus</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i> , <i>Eucalyptus brookeriana</i>	Litter
0.75	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Lepidosperma elatius</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Microlaena stipoides</i> , <i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i> , <i>Hypochaeris radicata</i>	Logs	<i>Poa tenera</i> , <i>Eucalyptus viminalis</i> , <i>Clematis aristata</i>	Litter	<i>Holcus lanatus</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i> , <i>Eucalyptus brookeriana</i>	Litter
1	<i>Lepidosperma elatius</i> , <i>Olearia lirata</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Microlaena stipoides</i> , <i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Poa tenera</i> , <i>Eucalyptus viminalis</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Holcus lanatus</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i> , <i>Eucalyptus brookeriana</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
1.25	<i>Lepidosperma elatius</i> , <i>Olearia lirata</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Poa tenera</i> , <i>Eucalyptus viminalis</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus brookeriana</i>	Litter
1.5	<i>Pteridium esculentum subsp. esculentum</i> , <i>Lepidosperma elatius</i> , <i>Prostanthera lasianthos</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum subsp. Esculentum</i> , <i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Eucalyptus viminalis</i>	Litter	<i>Holcus lanatus</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus brookeriana</i>	Litter
1.75	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Prostanthera lasianthos</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum subsp. esculentum subsp. Esculentum</i> , <i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Poa tenera</i>	Litter	<i>Holcus lanatus</i> , <i>Eucalyptus brookeriana</i>	Litter
2	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Prostanthera lasianthos</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Logs	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Holcus lanatus</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Lepidosperm a elatius</i> , <i>Eucalyptus viminalis</i> , <i>Histiopteris incisa</i>	Litter	<i>Eucalyptus brookeriana</i>	Litter
2.25	<i>Pteridium esculentum subsp. esculentum</i> , <i>Clematis aristata</i> , <i>Lepidosperma elatius</i> , <i>Prostanthera lasianthos</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Senecio minimus</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Holcus lanatus</i> , <i>Senecio minimus</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus brookeriana</i>	Litter
2.5	<i>Pteridium esculentum subsp. esculentum</i> , <i>Olearia lirata</i> , <i>Lepidosperma elatius</i>	Litter	<i>Lepidosperma elatius</i> , <i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Senecio minimus</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Holcus lanatus</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Pteridium esculentum</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus brookeriana</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
2.75	<i>Olearia lirata</i> , <i>Lepidosperma elatius</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Pteridium esculentum</i> , <i>Holcus lanatus</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Pteridium esculentum</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus brookeriana</i>	Litter
3	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Olearia lirata</i> , <i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i> , <i>Lomandra longifolia</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Pteridium esculentum</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus brookeriana</i>	Litter
3.25	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i> , <i>Lomandra longifolia</i> subsp. <i>longifolia</i>	Litter	<i>Poa tenera</i> , <i>Eucalyptus viminalis</i> , <i>Pomaderris aspera</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
3.5	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i> , <i>Clematis aristata</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
3.75	<i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus obliqua</i> , <i>Clematis aristata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
4	<i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum</i> subsp.	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> ,	Litter	<i>Pteridium esculentum</i>	Litter	<i>Eucalyptus viminalis</i> ,	Litter	<i>Eucalyptus ovata</i> ,	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
			<i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>						<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>		<i>subsp. esculentum</i> , <i>Eucalyptus obliqua</i> , <i>Clematis aristata</i> , <i>Lomandra longifolia</i>		<i>Prostanthera lasianthos</i>		<i>Pteridium esculentum subsp. esculentum</i>	
4.25	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Bare ground	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i> , <i>Lomandra longifolia</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter
4.5	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus obliqua</i>	Litter	<i>Blechnum nudum</i> , <i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter
4.75	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Prostanthera lasianthos</i>	Bare ground	<i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Hydrocotyle hirta</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Bryophytes	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter
5	<i>Poa tenera</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Stellaria media</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i>	Litter	<i>Senecio glomeratus</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Gonocarpus tetragynus</i> , <i>Eucalyptus obliqua</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i> , <i>Prostanthera lasianthos</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter
5.25	<i>Holcus lanatus</i> , <i>Poa tenera</i> ,	Bare ground	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Stellaria</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena</i>	Litter	<i>Senecio glomeratus</i> , <i>Pteridium</i>	Litter	<i>Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
	<i>Prostanthera lasianthos</i>		<i>media</i> , <i>Acacia melanoxylon</i>						<i>juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>		<i>esculentum</i> subsp. <i>esculentum</i> , <i>Gonocarpus tetragynus</i> , <i>Eucalyptus obliqua</i> , <i>Tetrarrhena juncea</i>				<i>esculentum</i> subsp. <i>esculentum</i>	
5.5	<i>Holcus lanatus</i> , <i>Poa tenera</i> , <i>Prostanthera lasianthos</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Stellaria media</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Senecio glomeratus</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
5.75	<i>Poa tenera</i> , <i>Prostanthera lasianthos</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Stellaria media</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i> , <i>Senecio minimus</i> , <i>Acacia verticillata</i>	Litter	<i>Lepidosperma elatius</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia melanoxylon</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Senecio glomeratus</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
6	<i>Poa tenera</i> , <i>Prostanthera lasianthos</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Lepidosperma elatius</i> , <i>Stellaria media</i> , <i>Acacia melanoxylon</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Acacia verticillata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i>	Litter	<i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> , <i>Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
6.25	<i>Carex appressa</i> , <i>Poa tenera</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Cerastium glomeratum</i> s.l., <i>Gynatrix pulchella</i> s.l., <i>Lepidosperma elatius</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Acacia verticillata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Hypochaeris radicata</i> , <i>Eucalyptus obliqua</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Eucalyptus viminalis</i> , <i>Pteridium esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
6.5	<i>Carex appressa</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Cerastium glomeratum</i> s.l., <i>Gynatrix pulchella</i>	Litter	<i>Acacia verticillata</i>	Bare ground	<i>Eucalyptus ovata</i> , <i>Acacia verticillata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i> , <i>Pteridium</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Pteridium</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Acacia verticillata</i> ,	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
			<i>s.l., Lepidosperma elatius</i>						<i>esculentum, Pomaderris aspera</i>		<i>esculentum subsp. esculentum, Eucalyptus obliqua</i>		<i>Pteridium esculentum</i>		<i>subsp. esculentum</i>	
6.75	<i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea, Cerastium glomeratum s.l., Gynatrix pulchella s.l., Lepidosperma elatius</i>	Litter		Bare ground	<i>Eucalyptus ovata, Acacia verticillata, Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea, Holcus lanatus, Pteridium esculentum, Pomaderris aspera</i>	Litter	<i>Microlaena stipoides var. stipoides, Pteridium esculentum subsp. esculentum, Eucalyptus obliqua</i>	Litter	<i>Acacia verticillata, Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata, Pteridium esculentum subsp. esculentum</i>	Litter
7	<i>Lepidosperma elatius, Pomaderris aspera</i>	Litter	<i>Gynatrix pulchella s.l.</i>	Water		Litter	<i>Eucalyptus ovata, Acacia verticillata, Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea, Pteridium esculentum, Pomaderris aspera</i>	Litter	<i>Microlaena stipoides var. stipoides, Pteridium esculentum subsp. esculentum, Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea, Eucalyptus viminalis, Pteridium esculentum</i>	Litter	<i>Eucalyptus ovata, Pteridium esculentum subsp. esculentum</i>	Litter
7.25	<i>Olearia lirata, Rubus anglocandicans</i>	Litter	<i>Gynatrix pulchella s.l.</i>	Water		Bare ground	<i>Tetrarrhena juncea, Acacia verticillata, Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea, Pteridium esculentum, Pomaderris aspera</i>	Litter	<i>Microlaena stipoides var. stipoides, Pteridium esculentum subsp. esculentum, Eucalyptus obliqua, Centaurium erythraea</i>	Litter	<i>Poa tenera, Eucalyptus viminalis, Tetrarrhena juncea, Acacia verticillata</i>	Litter	<i>Eucalyptus ovata</i>	Litter
7.5	<i>Tetrarrhena juncea, Pomaderris aspera, Olearia lirata, Rubus anglocandicans</i>	Litter	<i>Gynatrix pulchella s.l.</i>	Water		Litter	<i>Eucalyptus ovata, Tetrarrhena juncea, Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea, Holcus lanatus, Pomaderris aspera</i>	Litter	<i>Eucalyptus obliqua</i>	Bare ground	<i>Poa tenera, Pteridium esculentum, Tetrarrhena juncea, Acacia verticillata, Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata</i>	Litter
7.75	<i>Carex appressa, Olearia lirata</i>	Litter	<i>Gynatrix pulchella s.l.</i>	Water		Bare ground	<i>Eucalyptus ovata, Tetrarrhena juncea, Gahnia sieberiana, Acacia verticillata,</i>	Litter	<i>Tetrarrhena juncea, Holcus lanatus, Pomaderris aspera</i>	Litter	<i>Eucalyptus obliqua</i>	Bare ground	<i>Tetrarrhena junceaEucalyptus viminalis, Pomaderris aspera</i>	Litter	<i>Eucalyptus ovata, Pteridium esculentum subsp. esculentum</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
8	<i>Carex appressa</i> , <i>Lepidosperma elatius</i>	Litter	<i>Gynatrix pulchella</i> s.l.	Water		Litter	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Bare ground	<i>Holcus lanatus</i> , <i>Pomaderris aspera</i>	Litter	<i>Eucalyptus obliqua</i>	Bare ground	<i>Eucalyptus viminalis</i> , <i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Logs	<i>Eucalyptus ovata</i>	Litter
8.25	<i>Pomaderris aspera</i>	Bare ground	<i>Gynatrix pulchella</i> s.l.	Water		Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Bare ground	<i>Holcus lanatus</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus obliqua</i> , <i>Hypochaeris radicata</i> , <i>Anthoxanthum odoratum</i>	Litter	<i>Pteridium esculentum</i> <i>Eucalyptus viminalis</i> , <i>Pomaderris aspera</i>	Logs	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
8.5	<i>Lepidosperma elatius</i> , <i>Pomaderris aspera</i> , <i>Olearia lirata</i>	Bryophytes	<i>Gynatrix pulchella</i> s.l., <i>Microlaena stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water		Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Litter	<i>Eucalyptus obliqua</i> , <i>Hypochaeris radicata</i> , <i>Anthoxanthum odoratum</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Dicksonia antarctica</i> , <i>Pteridium esculentum</i>	Logs	<i>Eucalyptus ovata</i>	Litter
8.75	<i>Pomaderris aspera</i>	Litter	<i>Gynatrix pulchella</i> s.l., <i>Microlaena stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water		Bare ground	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Anthoxanthum odoratum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Dicksonia antarctica</i> , <i>Pteridium esculentum</i>	Logs	<i>Eucalyptus ovata</i>	Litter
9	<i>Carex appressa</i> , <i>Leptospermum continentale</i> , <i>Pomaderris aspera</i>	Litter	<i>Gynatrix pulchella</i> s.l., <i>Microlaena stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i> , <i>Carex appressa</i>	Water		Bryophytes	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i> , <i>Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Pteridium esculentum</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Anthoxanthum odoratum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Dicksonia antarctica</i>	Logs	<i>Eucalyptus ovata</i>	Litter
9.25	<i>Lepidosperma elatius</i> , <i>Pomaderris aspera</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Microlaena stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter		Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i> , <i>Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Pteridium esculentum</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Anthoxanthum odoratum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> ,	Litter	<i>Dicksonia antarctica</i> , <i>Eucalyptus viminalis</i>	Litter	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>Eucalyptus obliqua</i>					
9.5	<i>Lepidosperma elatius</i> , <i>Pomaderris aspera</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Blechnum minus</i> , <i>Hydrocotyle hirta</i>	Litter		Litter	<i>Eucalyptus ovata</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Pteridium esculentum</i> , <i>Pomaderris aspera</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Anthoxanthum odoratum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i> , <i>Clematis aristata</i>	Litter	<i>Eucalyptus viminalis</i> , <i>Dicksonia antarctica</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter
9.75	<i>Pomaderris aspera</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Carex appressa</i> , <i>Oxalis exilis</i> , <i>Hydrocotyle hirta</i> , <i>Acacia verticillata</i>	Litter		Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Pteridium esculentum</i> , <i>Pomaderris aspera</i>	Logs	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Dicksonia antarctica</i>	Litter	<i>Eucalyptus ovata</i>	Litter
10	<i>Pomaderris aspera</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Carex appressa</i> , <i>Oxalis exilis</i> , <i>Hydrocotyle hirta</i> , <i>Acacia verticillata</i>	Litter		Litter	<i>Hydrocotyle hirta</i> , <i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Senecio glomeratus</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Dicksonia antarctica</i> , <i>Acacia verticillata</i>	Litter	<i>Eucalyptus ovata</i>	Litter
10.25	<i>Lepidosperma elatius</i> , <i>Pomaderris aspera</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Carex appressa</i> , <i>Oxalis exilis</i> , <i>Hydrocotyle hirta</i> , <i>Acacia verticillata</i>	Litter		Bare ground	<i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Eucalyptus brookeriana</i> , <i>Holcus lanatus</i> , <i>Pomaderris aspera</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Senecio glomeratus</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Dicksonia antarctica</i> , <i>Acacia verticillata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Holcus lanatus</i>	Logs
10.5	<i>Lycopus australis</i> , <i>Pomaderris aspera</i>	Litter	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Cerastium glomeratum</i> s.l., <i>Carex appressa</i> , <i>Oxalis exilis</i> ,	Litter		Litter	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Holcus lanatus</i> , <i>Eucalyptus brookeriana</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Dicksonia antarctica</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
			Hydrocotyle hirta, Acacia verticillata													
10.75	Carex appressa, Pomaderris aspera, Leptospermum continentale	Litter	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera, Leptospermum continentale, Viola hederacea sensu Entwisle (1996)	Logs		Bare ground	Eucalyptus ovata	Logs	Holcus lanatus, Tetrarrhena juncea, Eucalyptus brookeriana	Litter	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum	Logs	Tetrarrhena juncea, Dicksonia antarctica, Pomaderris aspera, Acacia verticillata	Litter	Eucalyptus ovata, Pteridium esculentum subsp. esculentum, Galium murale	Litter
11	Carex appressa, Pomaderris aspera, Leptospermum continentale,	Litter	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera, Leptospermum continentale	Litter		Litter	Eucalyptus ovata	Logs	Senecio minimus, Eucalyptus brookeriana	Logs	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum	Logs	Tetrarrhena juncea, Dicksonia antarctica, Acacia verticillata, Pomaderris aspera	Litter	Eucalyptus ovata	Litter
11.25	Carex appressa, Leptospermum continentale,	Litter	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera, Leptospermum continentale	Litter		Litter	Pteridium esculentum subsp. esculentum, Eucalyptus ovata, Tetrarrhena juncea	Litter	Tetrarrhena juncea, Holcus lanatus , Eucalyptus brookeriana	Logs	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum, Senecio glomeratus	Logs	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera	Litter	Eucalyptus ovata, Pteridium esculentum subsp. esculentum, Holcus lanatus	Litter
11.5	Carex appressa, Pomaderris aspera, Leptospermum myrsinoides, Leptospermum continentale	Litter	Tetrarrhena juncea, Acacia verticillata,Leptospermum continentale	Litter	Astroloma humifusum	Litter	Pteridium esculentum subsp. esculentum, Eucalyptus ovata, Tetrarrhena juncea	Litter	Holcus lanatus	Logs	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum	Logs	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera	Litter	Eucalyptus ovata, Pteridium esculentum subsp. esculentum	Litter
11.75	Pomaderris aspera, Leptospermum myrsinoides, Leptospermum continentale	Bare ground	Tetrarrhena juncea, Acacia verticillata,Leptospermum continentale	Litter	Eucalyptus ovata	Litter	Eucalyptus ovata, Pteridium esculentum subsp. esculentum	Litter	Tetrarrhena juncea, Senecio minimus, Holcus lanatus	Logs	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum	Logs	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera	Litter	Eucalyptus ovata, Holcus lanatus	Litter
12	Carex appressa, Leptospermum myrsinoides,	Bare ground	Tetrarrhena juncea, Acacia verticillata,Leptospermum continentale	Litter	Eucalyptus ovata	Litter	Eucalyptus ovata, Tetrarrhena juncea	Litter	Tetrarrhena juncea, Rubus fruticosus spp. agg.	Logs	Tetrarrhena juncea, Pteridium esculentum subsp. esculentum	Logs	Tetrarrhena juncea, Acacia verticillata, Pomaderris aspera	Litter	Eucalyptus ovata, Holcus lanatus	Logs
12.25	Leptospermum myrsinoides,	Bare ground	Tetrarrhena juncea, Acacia verticillata,Leptospermum continentale	Litter	Eucalyptus ovata	Bare ground	Eucalyptus ovata, Tetrarrhena juncea	Litter	Tetrarrhena juncea, Holcus lanatus	Litter	Tetrarrhena juncea, Pteridium esculentum	Litter	Tetrarrhena juncea, Acacia verticillata,	Litter	Eucalyptus ovata, Pteridium esculentum	Logs

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											subsp. <i>esculentum</i>		<i>Pomaderris aspera</i> , <i>Pteridium esculentum</i>		subsp. <i>esculentum</i>	
12.5	<i>Leptospermum myrsinoides</i> , <i>Leptospermum continentale</i>	Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Bryophytes	<i>Eucalyptus ovata</i>	Litter	<i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i> , <i>Acacia verticillata</i> , <i>Pteridium esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Holcus lanatus</i>	Litter
12.75	<i>Leptospermum continentale</i>	Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Litter		Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Pomaderris aspera</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
13	<i>Leptospermum myrsinoides</i>	Water	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i>	Litter		Bryophytes	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter		Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
13.25	<i>Leptospermum myrsinoides</i>	Water	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i>	Litter		Bare ground	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Senecio glomeratus</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Litter	<i>Holcus lanatus</i> , <i>Eucalyptus ovata</i>	Litter
13.5	<i>Leptospermum myrsinoides</i>	Water	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i> , <i>Carex appressa</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Senecio glomeratus</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pomaderris aspera</i>	Litter	<i>Eucalyptus brookeriana</i>	Logs
13.75	<i>Leptospermum myrsinoides</i>	Water	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i> , <i>Carex appressa</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Anthoxanthum odoratum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> , <i>Pomaderris aspera</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Logs

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
14	<i>Leptospermum myrsinoides</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Anthoxanthu m odoratum</i> , <i>Hypochaeris radicata</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> , <i>Acacia verticillata</i>	Logs	<i>Eucalyptus ovata</i>	Logs
14.25	<i>Leptospermum myrsinoides</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Anthoxanthu m odoratum</i> , <i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> , <i>Acacia verticillata</i>	Litter	<i>Eucalyptus ovata</i>	Litter
14.5	<i>Leptospermum myrsinoides</i>	Water	<i>Tetrarrhena juncea</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Anthoxanthu m odoratum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Holcus lanatus</i> , <i>Eucalyptus ovata</i>	Litter
14.75	<i>Cycnogeton procerum s.s.</i> , <i>Leptospermum myrsinoides</i> ,	Water	<i>Tetrarrhena juncea</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Logs		Bare ground	<i>Eucalyptus ovata</i>	Water	<i>Gahnia sieberiana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Anthoxanthu m odoratum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Logs
15	<i>Leptospermum myrsinoides</i>	Water	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i>	Water	<i>Gahnia sieberiana</i> , <i>Carex appressa</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Anthoxanthu</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>m odoratum</i> , <i>Eucalyptus obliqua</i>					
15.25	<i>Leptospermum myrsiniodes</i>	Water	<i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Leptospermum continentale</i>	Bare ground	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Gahnia sieberiana</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Acacia verticillata</i>	Litter	<i>Eucalyptus ovata</i>	Litter
15.5	<i>Leptospermum myrsiniodes</i>	Water	<i>Carex appressa</i> , <i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Leptospermum continentale</i>	Litter		Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Carex appressa</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs	<i>Senecio minimus</i> , <i>Eucalyptus ovata</i>	Litter
15.75	<i>Leptospermum myrsiniodes</i>	Water	<i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Eucalyptus ovata</i> , <i>Anthoxanthum odoratum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Carex appressa</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs	<i>Eucalyptus ovata</i>	Litter
16	<i>Leptospermum myrsiniodes</i>	Water	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Carex appressa</i> , <i>Eucalyptus brookeriana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Holcus lanatus</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Rubus fruticosus</i> spp. <i>agg.</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
16.25	<i>Alternanthera denticulata</i> s.l., <i>Leptospermum myrsiniodes</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Carex appressa</i> , <i>Eucalyptus brookeriana</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Anthoxanthu m odoratum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Pteridium esculentum</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Logs

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
16.5	<i>Hydrocotyle pterocarpa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Bare ground	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Isolepis sp.</i> , <i>Eucalyptus brookeriana</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Anthoxanthum odoratum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i>	Logs
16.75	<i>Lobelia pedunculata s.l.</i> , <i>Hydrocotyle pterocarpa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Bare ground	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus brookeriana</i>	Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Anthoxanthum odoratum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter		Litter
17	<i>Leptospermum myrsinoides</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Carex appressa</i> , <i>Eucalyptus brookeriana</i>	Water	<i>Tetrarrhena juncea</i> , <i>Lomandra longifolia</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs		Litter
17.25	<i>Carex appressa</i> , <i>Leptospermum myrsinoides</i>	Logs	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Astroloma humifusum</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter	<i>Carex appressa</i> , <i>Eucalyptus brookeriana</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Lomandra longifolia</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Pteridium esculentum</i> , <i>Acacia verticillata</i>	Logs		Litter
17.5	<i>Lycopus australis</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Lobelia beaugleholei</i> , <i>Leptospermum continentale</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> , <i>Pteridium esculentum subsp. esculentum</i>	Bryophytes	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Logs	<i>Carex appressa</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Pteridium esculentum</i> , <i>Acacia verticillata</i>	Logs		Litter
17.75	<i>Carex appressa</i> , <i>Lycopus australis</i> , <i>Leptospermum myrsinoides</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Carex appressa</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Lomandra longifolia</i> , <i>Pteridium esculentum subsp.</i>	Litter	<i>Pteridium esculentum</i> , <i>Acacia verticillata</i>	Logs		Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>esculentum</i> , <i>Eucalyptus obliqua</i>					
18	<i>Eucalyptus ovata</i> , <i>Lycopus australis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Carex appressa</i>	Water	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Carex appressa</i>	Water	<i>Tetrarrhena juncea</i> , <i>Lomandra longifolia</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter		Litter
18.25	<i>Eucalyptus ovata</i> , <i>Leptospermum myrsinoides</i>	Bryophytes	<i>Leptospermum continentale</i> , <i>Carex appressa</i>	Water	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Carex appressa</i>	Bare ground	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter		Litter
18.5	<i>Eucalyptus ovata</i> , <i>Leptospermum continentale</i> , <i>Carex appressa</i>	Bryophytes	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Carex appressa</i>	Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Pteridium esculentum</i> , <i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs		Litter
18.75	<i>Eucalyptus ovata</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i> , <i>Coprosma quadrifida</i>	Litter	<i>Leptospermum continentale</i> , <i>Carex appressa</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i>	Logs		Litter
19	<i>Eucalyptus ovata</i> , <i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum continentale</i> , <i>Carex appressa</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Eucalyptus ovata</i>	Bryophytes	<i>Eucalyptus ovata</i>	Litter	<i>Carex appressa</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs		Litter
19.25	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Coprosma quadrifida</i> , <i>Senecio prenanthoides</i> , <i>Small carax</i>	Logs	<i>Leptospermum continentale</i> , <i>Carex appressa</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Bare ground	<i>Carex appressa</i>	Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Histiopteris incisa</i>	Litter		Litter
19.5	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i>	Logs	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Water	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Bryophytes		Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> ,	Litter	<i>Pomaderris aspera</i>	Litter		Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>Eucalyptus obliqua</i>					
19.75	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Logs	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Bryophytes	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Pomaderris aspera</i>	Logs		Litter
20	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Logs	<i>Leptospermum continentale</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Bryophytes		Water	<i>Tetrarrhena juncea</i> , <i>Clematis aristata</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Pomaderris aspera</i> , <i>Pteridium esculentum</i>	Logs	<i>Eucalyptus ovata</i>	Litter
20.25	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Logs	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Bryophytes	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter		Litter	<i>Senecio glomeratus</i> , <i>Eucalyptus ovata</i>	Litter
20.5	<i>Eucalyptus ovata</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i> , <i>Leptospermum myrsinoides</i> , <i>Acacia melanoxylon</i>	Litter	<i>Galium aparine</i> , <i>Tetrarrhena juncea</i> , <i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i>	Litter	<i>Senecio glomeratus</i> , <i>Holcus lanatus</i> , <i>Eucalyptus ovata</i>	Litter
20.75	<i>Eucalyptus ovata</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i> , <i>Leptospermum myrsinoides</i> , <i>Acacia melanoxylon</i>	Litter	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Anthoxanthum odoratum</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i>	Litter	<i>Senecio glomeratus</i> , <i>Eucalyptus ovata</i>	Litter
21	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Alternanthera denticulata</i> s.l., <i>Leptospermum continentale</i> , <i>Leptospermum myrsiniodes</i> , <i>Acacia melanoxylon</i>	Litter	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i> , <i>Acacia melanoxylon</i>	Logs	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i>	Litter	<i>Senecio glomeratus</i> , <i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
21.25	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Todea barbara</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i> , <i>Acacia melanoxylon</i>	Litter	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter
21.5	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Todea barbara</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i>	Litter	<i>Acacia melanoxylon</i> , <i>Leptospermum continentale</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i>	Litter	<i>Eucalyptus ovata</i>	Litter
21.75	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Todea barbara</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus obliqua</i>	Logs		Litter	<i>Eucalyptus ovata</i>	Litter
22	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
22.25	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i> , <i>Tetrarrhena juncea</i>	Logs	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
22.5	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Histiopteris incisa</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter
22.75	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Carex appressa</i>	Litter	<i>Carex appressa</i> , <i>Leptospermum continentale</i>	Logs	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Logs	<i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter
23	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Carex appressa</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Eucalyptus ovata</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter
23.25	<i>Eucalyptus ovata</i> , <i>Carex fascicularis</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter	<i>Juncus procerus</i>	Water	<i>Tetrarrhena juncea</i> ,	Litter	<i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>Eucalyptus obliqua</i>					
23.5	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter		Logs	<i>Eucalyptus ovata</i>	Litter
23.75	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter
24	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus obliqua</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter
24.25	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter
24.5	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Holcus lanatus</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter
24.75	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Logs	<i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Litter
25	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i> , <i>Carex appressa</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
25.25	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i> , <i>Carex appressa</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i> , <i>Poa tenera</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
25.5	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i> , <i>Lycopus australis</i> , <i>Carex appressa</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter
25.75	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i> , <i>Lycopus australis</i> , <i>Carex appressa</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Leptospermum lanigerum</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Poa tenera</i> , <i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Logs	<i>Eucalyptus ovata</i>	Litter
26	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i> , <i>Lycopus australis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Poa tenera</i> , <i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
26.25	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Poa tenera</i> , <i>Tetrarrhena juncea</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
26.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Logs
26.75	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Asperula conferta</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i>	Logs

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
27	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Asperula conferta</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> ,	Logs		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Gahnia sieberiana</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Logs
27.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Logs		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Logs
27.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i> , <i>Senecio minimus</i>	Litter
27.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
28	<i>Persicaria decipiens</i> , <i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
28.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Logs	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
28.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Logs	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
28.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
29	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Gahnia</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i> ,	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Bryophytes	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
					<i>sieberiana</i> , <i>Eucalyptus ovata</i>		<i>Leptospermum continentale</i>									
29.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Leptospermum continentale</i>	Litter	Water		<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
29.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Leptospermum continentale</i>	Litter	Water		<i>Lepidosperm a elatius</i> , <i>Acacia verticillata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
29.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	Water		<i>Lepidosperm a elatius</i> , <i>Acacia verticillata</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
30	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	Water		<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Lepidosperm a elatius</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
30.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	Water		<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Senecio minimus</i> , <i>Lepidosperm a elatius</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
30.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	Water		<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i> , <i>Lepidosperm a elatius</i> , <i>Stellaris media</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
30.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum lanigerum</i> , <i>Melaleuca</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	Water		<i>Tetrarrhena juncea</i> , <i>Gahnia sieberiana</i> ,	Litter	<i>Melaleuca squarrosa</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
					<i>squarrosa</i> , <i>Eucalyptus ovata</i>						<i>Acacia verticillata</i>					
31	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Logs	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
31.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Bare ground	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
31.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	, <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Bare ground	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
31.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Gahnia sieberiana</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter
32	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Gahnia sieberiana</i> , <i>Acacia verticillata</i>	Logs	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
32.25	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Gahnia sieberiana</i> , <i>Acacia verticillata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
32.5	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Gahnia sieberiana</i> , <i>Acacia verticillata</i> , <i>Eucalyptus ovata</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
32.75	<i>Carex fascicularis</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter		Water	<i>Gahnia sieberiana</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											ovata, Acacia verticillata					
33	Carex fascicularis	Litter	Leptospermum continentale	Logs	Melaleuca squarrosa, Leptospermum lanigerum, Eucalyptus ovata	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Tetrarrhena juncea, Eucalyptus ovata, Gahnia sieberiana	Bare ground	Melaleuca squarrosa	Litter	Eucalyptus ovata	Litter
33.25	Carex fascicularis	Litter	Leptospermum continentale	Water	Melaleuca squarrosa	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Tetrarrhena juncea, Eucalyptus ovata, Gahnia sieberiana	Bare ground	Melaleuca squarrosa	Litter	Eucalyptus ovata	Litter
33.5	Carex fascicularis	Litter	Leptospermum continentale	Water	Melaleuca squarrosa	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Tetrarrhena juncea, Eucalyptus ovata, Gahnia sieberiana	Litter	Melaleuca squarrosa	Litter	Eucalyptus ovata	Litter
33.75	Carex fascicularis	Litter	Leptospermum continentale	Logs	Melaleuca squarrosa	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Eucalyptus ovata, Gahnia sieberiana	Litter	Melaleuca squarrosa	Litter	Eucalyptus ovata	Litter
34	Carex fascicularis	Litter	Leptospermum continentale	Logs	Melaleuca squarrosa	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Tetrarrhena juncea, Acacia verticillata, Gahnia sieberiana, Eucalyptus ovata	Litter	Melaleuca squarrosa, Leptospermum myrsinodes	Bare ground	Eucalyptus ovata	Litter
34.25	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Litter	Melaleuca squarrosa	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Tetrarrhena juncea, Gahnia sieberiana, Acacia verticillata, Eucalyptus ovata	Litter	Melaleuca squarrosa, Leptospermum myrsinodes	Logs	Eucalyptus ovata	Litter
34.5	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Water	Pteridium esculentum subsp. esculentum, Acacia stricta	Logs	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Litter		Water	Eucalyptus ovata, Gahnia sieberiana, Acacia verticillata	Litter	Melaleuca squarrosa, Leptospermum myrsinodes	Litter	Eucalyptus ovata	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
34.75	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Water	Melaleuca squarrosa, Leptospermum lanigerum	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Water	Gahnia sieberiana, Acacia verticillata, Eucalyptus ovata	Litter	Melaleuca squarrosa, Leptospermum myrsinoides	Logs	Eucalyptus ovata	Litter
35	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Litter	Leptospermum lanigerum, Melaleuca squarrosa, Eucalyptus ovata	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Logs	Tetrarrhena juncea, Acacia verticillata, Eucalyptus ovata, Gahnia siebariana	Litter	Leptospermum myrsinoides	Litter	Eucalyptus ovata	Litter
35.25	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Water	Leptospermum lanigerum, Melaleuca squarrosa, Eucalyptus ovata	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Logs	Tetrarrhena juncea, Gahnia sieberiana, Eucalyptus ovata, Acacia verticillata	Litter	Leptospermum myrsinoides	Litter	Eucalyptus ovata	Litter
35.5	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Water	Leptospermum lanigerum, Melaleuca squarrosa, Eucalyptus ovata	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Logs	Tetrarrhena juncea, Gahnia sieberiana, Eucalyptus ovata, Pteridium esculentum subsp. esculentum, Acacia verticillata	Litter	Leptospermum myrsinoides, Melaleuca squarrosa	Logs	Eucalyptus ovata	Litter
35.75	Carex fascicularis, Carex appressa	Litter	Leptospermum continentale	Water	Melaleuca squarrosa, Eucalyptus ovata	Litter	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Logs	Tetrarrhena juncea, Eucalyptus ovata, Acacia verticillata	Litter	Leptospermum myrsinoides, Melaleuca squarrosa	Litter	Eucalyptus ovata, Senecio minimus	Litter
36	Carex fascicularis, Carex appressa, Leptospermum continentale	Litter	Leptospermum continentale	Water	Melaleuca squarrosa, Eucalyptus ovata	Bare ground	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Logs	Tetrarrhena juncea, Eucalyptus ovata, Acacia verticillata	Litter	Leptospermum myrsinoides, Melaleuca squarrosa	Logs	Eucalyptus ovata	Logs
36.25	Carex fascicularis, Carex appressa, Leptospermum continentale	Bare ground	Leptospermum continentale	Water	Melaleuca squarrosa, Eucalyptus ovata	Bare ground	Gahnia sieberiana, Melaleuca squarrosa, Eucalyptus ovata	Water		Water	Tetrarrhena juncea, Eucalyptus ovata, Acacia verticillata	Logs	Leptospermum myrsinoides	Litter	Eucalyptus ovata	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
36.5	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Bare ground	<i>Leptospermum continentale</i>	Bare ground	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Logs	<i>Leptospermum myrsinoides</i>	Logs	<i>Eucalyptus ovata</i>	Litter
36.75	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsinoides</i>	Water	<i>Eucalyptus ovata</i>	Litter
37	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Asperula conferta</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsinoides</i> , <i>Carex fascicularis</i>	Litter	<i>Eucalyptus ovata</i>	Litter
37.25	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Asperula conferta</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsinoides</i> , <i>Carex fascicularis</i>	Litter	<i>Eucalyptus ovata</i>	Litter
37.5	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Leptospermum lanigerum</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Logs	<i>Leptospermum myrsinoides</i> , <i>Carex fascicularis</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter
37.75	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Bare ground	<i>Leptospermum continentale</i>	Water	<i>Leptospermum lanigerum</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsinoides</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter
38	<i>Carex fascicularis</i> , <i>Leptospermum continentale</i>	Bare ground	<i>Leptospermum continentale</i>	Water	<i>Leptospermum lanigerum</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i> , <i>Acacia melanoxylon</i>	Litter	<i>Leptospermum myrsinoides</i>	Bare ground	<i>Eucalyptus ovata</i>	Litter
38.25	<i>Carex fascicularis</i> , <i>Carex appressa</i> , <i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Acacia melanoxylon</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsinoides</i>	Water	<i>Eucalyptus ovata</i>	Litter
38.5	<i>Leptospermum continentale</i> , <i>Carex appressa</i> , <i>Pericaria praetermissa</i>	Bare ground	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i> , <i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Acacia melanoxylon</i> , <i>Eucalyptus ovata</i>	Logs	<i>Leptospermum myrsinoides</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
38.75	<i>Leptospermum continentale</i> , <i>Carex appressa</i>	Bare ground	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Senecio minimus</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter
39	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Bare ground	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Bryophytes	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter
39.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Bare ground	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Gahnia sieberiana</i>	Litter
39.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Gahnia sieberiana</i>	Litter
39.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i> , <i>Acacia melanoxylon</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i>	Water		Water	<i>Eucalyptus ovata</i>	Logs	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Gahnia sieberiana</i>	Litter
40	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i> , <i>Acacia melanoxylon</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i>	Water		Water	<i>Eucalyptus ovata</i> , <i>Tetrarrhena juncea</i> ,	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Litter
40.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i> , <i>Pteridium esculentum subsp. esculentum</i>	Water		Water	<i>Eucalyptus ovata</i>	Logs	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Litter
40.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i> , <i>Pteridium esculentum subsp. esculentum</i> ,	Water		Water	<i>Tetrarrhena juncea</i> , <i>Eucalyptus ovata</i> ,	Logs	<i>Leptospermum myrsiniodes</i> ,	Water	<i>Eucalyptus ovata</i> , <i>Galium aparine</i> , <i>Pteridium</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
							<i>Leptospermum lanigerum</i>						<i>Melaleuca squarrosa</i>		<i>esculentum subsp. esculentum</i>	
40.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i> , <i>Pteridium esculentum subsp. esculentum</i> , <i>Leptospermum lanigerum</i>	Water		Water	<i>Eucalyptus ovata</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Litter
41	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Eucalyptus ovata</i> , <i>Cassytha glabella</i> , <i>Pteridium esculentum subsp. esculentum</i>	Water		Water	<i>Eucalyptus ovata</i> , <i>Galium aparine</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i> , <i>Galium aparine</i>	Logs
41.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Leptospermum lanigerum</i> ,	Water		Water	<i>Holcus lanatus</i> , <i>Senecio glomeratus</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Galium aparine</i> , <i>Eucalyptus ovata</i>	Litter
41.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water		Bare ground	<i>Gahnia sieberiana</i> , <i>Leptospermum lanigerum</i> ,	Water		Water	<i>Holcus lanatus</i> , <i>Senecio glomeratus</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Logs
41.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Leptospermum lanigerum</i> ,	Water		Water	<i>Holcus lanatus</i> , <i>Senecio glomeratus</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Pteridium esculentum subsp. esculentum</i> , <i>Eucalyptus ovata</i> , <i>Galium aparine</i>	Litter
42	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i>	Water	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i> , <i>Pteridium esculentum subsp. esculentum</i>	Water		Water	<i>Gahnia sieberiana</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i>	Water	<i>Eucalyptus ovata</i>	Litter
42.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i> , <i>Gahnia sieberiana</i>	Litter	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i>	Water	<i>Eucalyptus ovata</i> , <i>Pteridium esculentum subsp. esculentum</i>	Litter
42.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata s.l.</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> ,	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Gahnia sieberiana</i>	Logs	<i>Leptospermum</i> <i>m</i> <i>myrsiniodes</i>	Water	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
42.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Melaleuca squarrosa</i> , <i>Eucalyptus ovata</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Gahnia sieberiana</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Litter
43	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Gahnia sieberiana</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i> , <i>Gahnia sieberiana</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Eucalyptus ovata</i>	Litter
43.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Eucalyptus ovata</i> , <i>Melaleuca squarrosa</i>	Bryophytes	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
43.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Eucalyptus ovata</i> , <i>Astroloma humifusum</i> , <i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Leptospermum lanigerum</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Senecio minimus</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
43.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water		Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperma elatius</i> , <i>Holcus lanatus</i> , <i>Senecio minimus</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
44	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Bryophytes	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperma elatius</i> , <i>Holcus lanatus</i> , <i>Senecio minimus</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
44.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperma elatius</i> , <i>Holcus lanatus</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Eucalyptus ovata</i>	Litter
44.5	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Water	<i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperma elatius</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum</i> <i>myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
44.75	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Leptospermum lanigerum</i>	Litter	<i>Gahnia sieberiana</i>	Water		Water	<i>Lepidosperm a elatius</i> , <i>Tetrarrhena juncea</i> , <i>Holcus lanatus</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Litter
45	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperm a elatius</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Eucalyptus ovata</i>	Logs
45.25	<i>Leptospermum continentale</i> , <i>Alternanthera denticulata</i> s.l.	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i>	Logs	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperm a elatius</i> , <i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Litter
45.5	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i>	Bryophytes	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Lepidosperm a elatius</i> , <i>Tetrarrhena juncea</i> , <i>Galium aparine</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Litter
45.75	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter		Bare ground	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Lepidosperm a elatius</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Litter
46	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter		Bare ground	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Holcus</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Litter
46.25	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter		Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i>	Bryophytes	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Leptospermum continentale</i>	Litter
46.5	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water		Bare ground	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Leptospermum continentale</i>	Water
46.75	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i> , <i>Acacia melanoxylon</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Acacia</i>	Litter	<i>Leptospermum myrsiniodes</i> ,	Litter	<i>Leptospermum continentale</i>	Litter

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
											<i>verticillata</i> , <i>Holcus lanatus</i>		<i>Melaleuca squarrosa</i>			
47	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Senecio minimus</i> , <i>Acacia verticillata</i>	Bryophytes	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Leptospermum continentale</i>	Bare ground
47.25	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Logs		Bryophytes	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Leptospermum continentale</i>	Logs
47.5	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water	<i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Leptospermum continentale</i>	Logs
47.75	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Melaleuca squarrosa</i> , <i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Gahnia sieberiana</i> , <i>Melaleuca squarrosa</i>	Water		Water		Litter	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Logs
48	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i> , <i>Melaleuca squarrosa</i>	Litter	<i>Gahnia sieberiana</i>	Water		Water		Bryophytes	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Logs
48.25	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Litter	<i>Gahnia sieberiana</i>	Water		Water	<i>Tetrarrhena juncea</i>	Logs	<i>Leptospermum myrsiniodes</i> , <i>Melaleuca squarrosa</i>	Litter		Logs
48.5	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter		Litter	<i>Gahnia sieberiana</i>	Water		Water	<i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i>	Litter	<i>Eucalyptus ovata</i>	Logs
48.75	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter		Litter	<i>Gahnia sieberiana</i>	Water		Water	<i>Tetrarrhena juncea</i>	Litter	<i>Leptospermum myrsiniodes</i>	Litter	<i>Eucalyptus ovata</i>	Logs
49	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter		Litter	<i>Gahnia sieberiana</i>	Water		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Leptospermum myrsiniodes</i>	Litter	<i>Eucalyptus ovata</i>	Logs

Point	Transect 1		Transect 2		Transect 3		Transect 4		Transect 5		Transect 6		Transect 7		Transect 8	
	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover	Species	Ground cover
49.25	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	Bryophytes	<i>Gahnia sieberiana</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Logs
49.5	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter			<i>Gahnia sieberiana</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Galium aparine</i> , <i>Acacia verticillata</i>	Litter	<i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Logs
49.75	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter		Bare ground	<i>Gahnia sieberiana</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Senecio minimus</i> , <i>Acacia verticillata</i>	Litter	<i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Water
50	<i>Leptospermum continentale</i>	Litter	<i>Leptospermum continentale</i>	Litter		Bare ground	<i>Gahnia sieberiana</i>	Litter		Water	<i>Tetrarrhena juncea</i> , <i>Acacia verticillata</i>	Litter	<i>Leptospermum myrsinoides</i>	Litter	<i>Eucalyptus ovata</i>	Water

Appendix E Quadrat survey

Table E1: Floristic quadrat data from big swamp (presence and abundance score)

Species	Lifeform	Native Y/N	Q1 (22)	Q2 (22)	Q3 (22)	Q4 (22)	Q5 (22)	Q1 (20)	Q2 (20)	Q3 (20)	Q4 (20)	Q5 (20)
<i>Acacia melanoxylon</i>	LS	Y		37.5					37.5			
<i>Acacia spp.</i>	LS	Y						0.1				
<i>Acacia verticillata</i>	LS	Y		2.5			2.5		2.5			15
<i>Acaena novae-zelandiae</i>	H	Y			0.1			2.5		0.1		
<i>Alternanthera denticulata</i>	H	Y	15	0.1				15	0.1			
<i>Anagallis arvensis</i>	H	N										0.1
<i>Anthoxanthum odoratum</i>	G	N		15			2.5	0.1	0.1	0.1		0.1
<i>Asperula conferta</i>	H	Y			0.1	15		0.1				0.1
<i>Australina pusilla</i>	H	Y								0.1		
<i>Billardiera mutabilis</i>	SC	Y										0.1
<i>Blechnum nudum</i>	F	Y		2.5					2.5			
<i>Blechnum spp.</i>	F	Y		2.5					0.1			
<i>Brachiscome sp.</i>	H	Y					0.1					
<i>Bursaria spinosa</i>	LS	Y						0.1				
<i>Carex appressa</i>	SR	Y	15	37.5				37.5	15			
<i>Carex fascicularis</i>	SR	Y	62.5	15				2.5	2.5			
<i>Carex sp.</i>	SR	Y						0.1				
<i>Centaurium erythraea</i>	H	N		0.1				0.1	0.1			0.1
<i>Centipeda spp.</i>	H	Y						0.1				
<i>Cerastium glomeratum s.l.</i>	H	N		0.1				0.1	0.1			

Species	Lifeform	Native Y/N	Q1 (22)	Q2 (22)	Q3 (22)	Q4 (22)	Q5 (22)	Q1 (20)	Q2 (20)	Q3 (20)	Q4 (20)	Q5 (20)
<i>Chiloglottis sp.</i>	H	Y										0.1
<i>Cirsium vulgare</i>	H	N						0.1				
<i>Clematis aristata</i>	SC	Y					0.1					0.1
<i>Coprosma quadrifida</i>	LS	Y		15					2.5			
<i>Cotula sp.</i>	H	Y	37.5									
<i>Cycnogeton procerum s.s.</i>	H	Y		2.5					2.5			
<i>Asteraceae sp.</i>	H	NA								0.1		
<i>Dianella revoluta</i>	SR	Y										0.1
<i>Dichondra repens</i>	H	Y										15
<i>Eleocharis acuta</i>	SR	Y					0.1					
<i>Eucalyptus brookeriana</i>	T	Y		15					15			
<i>Eucalyptus obliqua</i>	T	Y					62.5					15
<i>Eucalyptus ovata</i>	T	Y	2.5		62.5	0.1		2.5		62.5	0.1	
<i>Eucalyptus viminalis</i>	T	Y										15
<i>Gahnia sieberiana</i>	SR	Y		15					15			
<i>Galium aparine</i>	H	N		2.5	2.5			2.5	2.5	2.5		
<i>Galium ciliare subsp. terminale</i>	H	Y		0.1				0.1	0.1			
<i>Geranium solanderi s.l.</i>	H	Y					0.1					
<i>Geranium spp.</i>	H	NA										0.1
<i>Gonocarpus tetragynus</i>	H	Y		0.1					0.1			0.1
<i>Gynatrix pulchella</i>	LS	Y		15					15			
<i>Holcus lanatus</i>	H	N		15	2.5	0.1	2.5	62.5	2.5	2.5		2.5
<i>Hydrocotyle hirta</i>	H	Y		0.1	2.5			0.1	0.1	0.1		
<i>Hydrocotyle pterocarpa</i>	H	Y	2.5	0.1					0.1			

Species	Lifeform	Native Y/N	Q1 (22)	Q2 (22)	Q3 (22)	Q4 (22)	Q5 (22)	Q1 (20)	Q2 (20)	Q3 (20)	Q4 (20)	Q5 (20)
<i>Hypericum gramineum</i>	H	Y					0.1					
<i>Hypochaeris radicata</i>	H	N		0.1	0.1	0.1	0.1	15	0.1	2.5	0.1	2.5
<i>Isolepis spp.</i>	SR	Y	0.1					0.1				
<i>Juncus pauciflorus</i>	SR	Y		0.1				0.1	0.1			
<i>Juncus procerus</i>	SR	Y	0.1									
<i>Juncus spp.</i>	SR	Y						0.1				
<i>Lepidosperma elatius</i>	SR	Y		15			0.1	0.1	15			
<i>Lepidosperma laterale</i>	SR	Y										15
<i>Leptospermum continentale</i>	LS	Y	15	37.5		15		62.5	37.5		15	0.1
<i>Leptospermum myrsinoides</i>	LS	Y						15				
<i>Leucopogon spp.</i>	SS	Y										0.1
<i>Lobelia beaugleholei</i>	H	Y		0.1				2.5	0.1			
<i>Lobelia prateoides</i>	H	Y		0.1				0.1	0.1			
<i>Lomandra longifolia</i>	SR	Y					15					15
<i>Lycopus australis</i>	H	Y	2.5					37.5				
<i>Melaleuca squarrosa</i>	LS	Y		0.1		2.5		2.5	0.1		2.5	
<i>Mentha australis</i>	H	Y						2.5				
<i>Microlaena stipoides var. stipoides</i>	G	Y		2.5	2.5				15	0.1		2.5
<i>Olearia lirata</i>	LS	Y		0.1	2.5				2.5	2.5		0.1
<i>Orcidaceae sp.</i>	H	NA										0.1
<i>Oxalis exilis</i>	H	Y					2.5	0.1				
<i>Oxalis spp.</i>	H	Y		0.1					0.1			0.1
<i>Poa annua</i>	G	N						0.1				
<i>Poa morissii</i>	G	Y										37.5

Species	Lifeform	Native Y/N	Q1 (22)	Q2 (22)	Q3 (22)	Q4 (22)	Q5 (22)	Q1 (20)	Q2 (20)	Q3 (20)	Q4 (20)	Q5 (20)
<i>Poa sp.</i>	G	NA		0.1				0.1	0.1			
<i>Poa tenera</i>	G	Y		37.5					37.5			2.5
<i>Poaceae sp.</i>	G	NA						2.5				
<i>Pomaderris aspera</i>	LS	Y		37.5					37.5			
<i>Prunus spp.</i>	LS	N						0.1				
<i>Pteridium esculentum subsp. esculentum</i>	F	Y		62.5	87.5	87.5	37.5	2.5	37.5	87.5	87.5	15
<i>Rubus anglocandicans</i>	SS	N		0.1	0.1				0.1	0.1		
<i>Rumex sp.</i>	H	Y						0.1				
<i>Schoenus apogon</i>	SR	Y										0.1
<i>Senecio glomeratus</i>	H	Y			0.1	0.1	0.1			2.5		0.1
<i>Senecio minimus</i>	H	Y	0.1	0.1	2.5		0.1	0.1	0.1	15		
<i>Senecio prenanthoides</i>	H	Y		0.1				0.1	0.1	2.5		0.1
<i>Senecio sp.</i>	H	Y										0.1
<i>Herb 1</i>	H	Y	0.1									
<i>Carex sp.</i>	SR	Y	0.1									
<i>Sonchus oleraceus</i>	H	N	0.1	0.1	0.1			0.1	0.1	0.1		
<i>Tetrarrhena juncea</i>	G	Y		62.5			2.5		62.5			2.5
<i>Senecio sp.</i>	H	Y					0.1					
<i>Todea barbara</i>	F	Y		2.5					0.1			
<i>Viola hederacea sensu Entwisle (1996)</i>	H	Y		2.5					2.5			2.5
<i>Viola hederacea sensu Willis (1972)</i>	H	Y					0.1					
Species Count			14	42	14	8	19	40	42	17	5	33

Table C1. Quadrat 1 (2022) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	3	6	23562	9528	0.404	0.596
LS	15	210				
SS	0	0				
H	58	3306				
G	0	0				
F	0	0				
E	0	0				
SC	0	0				
SR	78	6006				
Total	154					

Table C2. Quadrat 2 (2022) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	15	210	176820	43058	0.244	0.756
LS	145	20880				
SS	0	0				
H	6	30				
G	102	10302				
F	70	4830				
E	0	0				
SC	0	0				
SR	83	6806				
Total	421					

Table C3. Quadrat 3 (2022) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	63	3906	26082	11594	0.445	0.555
LS	3	6				
SS	0	0				
H	5	20				
G	3	6				
F	88	7656				
E	0	0				
SC	0	0				
SR	0	0				
Total	162					

Table C4. Quadrat 4 (2022) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	1	0	14762	8172	0.554	0.446
LS	18	306				
SS	0	0				
H	15	210				
G	0	0				
F	88	7656				
E	0	0				
SC	0	0				
SR	0	0				
Total	122					

Table C5. Quadrat 5 (2022) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	63	3906	15750	5540	0.352	0.648
LS	3	6				
SS	0	0				
H	3	6				
G	3	6				
F	38	1406				
E	0	0				
SC	1	0				
SR	15	210				
Total	126					

Table C6. Quadrat 1 (2020) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	3	6	35156	11632	0.331	0.669
LS	80	6320				
SS	0	0				
H	61	3660				
G	0	0				
F	3	6				
E	0	0				
SC	0	0				
SR	41	1640				
Total	188					

Table C7. Quadrat 2 (2020) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	15	210	128522	35256	0.274	0.726
LS	135	18090				
SS	0	0				
H	6	30				
G	115	13110				
F	40	1560				
E	0	0				
SC	0	0				
SR	48	2256				
Total	359					

Table C8. Quadrat 3 (2020) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	63	3906	30450	11948	0.392	0.608
LS	3	6				
SS	0	0				
H	20	380				
G	1	0				
F	88	7656				
E	0	0				
SC	0	0				
SR	0	0				
Total	175					

Table C9. Quadrat 4 (2020) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	1	0	11342	7962	0.702	0.298
LS	18	306				
SS	0	0				
H	0	0				
G	0	0				
F	88	7656				
E	0	0				
SC	0	0				
SR	0	0				
Total	107					

Table C10. Quadrat 5 (2020) Simpson index analysis to determine structural diversity score

Lifeform	n_i	$n_i(n_i-1)$	$N(N-1)$	$\sum n_i(n_i-1)$	$Ds = \sum n_i(n_i-1) / N(N-1)$	1-D
T	30	870	23870	4446	0.186	0.814
LS	15	210				
SS	1	0				
H	18	306				
G	45	1980				
F	15	210				
E	0	0				
SC	1	0				
SR	30	870				
Total	155					

