A Baseline of Vegetation Health for the Buntine Marchagee Recovery Catchment.

Gunyidi Pool *c.* 1978
Photo D.B. Lyons

Gunyidi Pool 2004
Photo Jeff Richardson

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Summary

This document reports on a baseline of vegetation health in priority wetlands of the Buntine-Marchagee Recovery Catchment (BMRC). This baseline is established to allow for the monitoring of the impacts of hydrological change and the success of on-ground works as part of the BMRC program.

Vegetation transects were installed and vegetation health recorded at each of the 27 identified priority wetlands. Methods used for vegetation health are consistent with that used the Salinity Action Plan. This document outlines:

- The methods of installation;
- describes the wetlands and fringing vegetation;
- identifies wetland vegetation (where appropriate); and
- reports on opportunistic fauna records from the wetlands/fringing vegetation.

Vegetation health data and transect photographs are in the attached CD.

We recommend the following:

- These wetlands should be resampled in three years time using the methods described in this document. As the health categories are not largely influenced by normal yearly cycles the season of sampling is unimportant.
- As the hydrology of wetlands is complicated and poorly understood the region should consider the installation of further transects around these wetlands.
- Fertile specimens of all species designated *Melaleuca uncinata* complex and any plants not identified to species level in this report or in the attached spreadsheet be collected, vouchered with State Herbarium and data updated accordingly.
- It is recommended that future data collectors become familiar with the technique of plant health methods prior to data collection.

Introduction

The Buntine-Marchagee Natural Diversity Recovery Catchment (BMRC) is located in the Northern Wheatbelt Region, in the vicinity of the towns of Dalwallinu and Coorow, approximately 250 km NNE of Perth. The BMRC was selected as a recovery catchment under the State Salinity Strategy. The Strategy describes Recovery Catchments as a key measure for biodiversity conservation under the 1996 Salinity Action Plan (SAP). Recovery Catchments are based on the identification of major, high priority public assets that are at risk from salinity and warrant significant, ongoing investment in their recovery and protection. The goal for the BMRC project is "to maintain the native species in a range of representative wetlands within the Buntine-Marchagee catchment by 2020" (Buntine-Marchagee Natural Diversity Recovery Catchment Project, 2003). It is recognised that achieving this goal will require management of a range of degradation issues besides salinity.

It is recognised that there are significant biodiversity values contained in the fringing vegetation surrounding wetlands in the catchment and that waterlogging is a major threatening process. To assess the impact of hydrological change, and the success of management options designed to protect fringing vegetation, it is critical to have baseline data at wetlands where potential management actions may occur and, for the purpose of comparison, at wetlands where no actions have taken place. This project establishes this baseline.

The principle objective of this project was to collect baseline information of fringing vegetation health for ongoing monitoring. The methods used for this baseline are a subset of that used in the Salinity Action Plan (SAP; Gurner *et al*., 1999). The information collected will complement a range of other parameters (including aquatic invertebrates and water chemistry) that will be measured in each of these wetlands and will be used to:

- Assess the type of fringing vegetation and interpret past and current impacts;
- assist in the characterisation of wetlands within the catchment; and
- provide baseline data for monitoring of vegetation health and comparison with other environmental parameters including groundwater changes.

Specific objectives of this study were to:

- Develop a baseline data set of vegetation condition;
- assess the accuracy of vegetation community mapping previously collected for many of these wetlands;
- identify the aquatic vegetation present in those wetlands where such vegetation was present; and
- opportunistically collect records of fauna present at the surveyed wetlands.

Methods

Staff from the Dept. of Conservation and Land Management's Woodvale Wildlife Research Centre collected the data in November and December 2004.

Twenty-seven wetlands were sampled. To maximise value in understanding and characterising the different biological values present in the catchment, wetlands were chosen to maximize the vegetation types surveyed within the BMRC. Those chosen therefore included wetlands:

1. Geographically spread along and across the main braided drainage line system;
2. of different physical characteristics and processes; and
3. with relatively intact remnant vegetation.

The 27 wetlands for this project are a subset of 32 wetlands selected for the BMRC to represent the range of the wetlands in the catchment and include all those currently considered high priority or to have unique features. The 32 wetlands consisted of four wetlands sampled during the SAP survey

in 1999, eight wetlands sampled for invertebrates in November 2003, an additional 12 wetlands sampled for invertebrates in 2004 and eight wetlands considered of reasonable value or of special interest (including an additional wetland recently noted of interest).

Figure 1 displays the location within the catchment of the twenty-seven wetlands sampled in this study.

At each of the 27 wetlands:

- A baseline vegetation transect (described below) was established and plant specimens lodged with the WA Herbarium with duplicates for the Geraldton regional Herbarium;
- Existing vegetation mapping was validated;
- Aquatic vegetation (where present) was collected for later identification; and
- Opportunistic fauna records were collected.

Transect data from this program are contained in an attached CD and are presented as a series of appendices.

Transect establishment

Transects, ideally, would be located on a gentle gradient from wetland edge upslope through the same vegetation community with the transect end perceived to be above any future waterlogging. In reality, this was difficult to find. Few wetlands adhered to this ideal with:

- Variations in vegetation community away from the wetland;
- Some wetlands were fringed with a lunette giving a slope away from the wetland (for example W008); and
- An already substantial impact of waterlogging.

Within these constraints transects were established from the edge of each wetland. Both the start (the wetland end) and the finish are marked with star pickets, with the start picket tagged with the wetland number. Both ends of the transect mark a significant feature: the start usually at the edge of samphire, the end at a change of plant community and/or at a site considered above the influence of waterlogging. Every 20 metres a fence dropper was placed to aid in re-establishing the transect. In some areas 20 m was not suitable due to either interfering with vehicle access or this distance would have been in the centre of a shrub and hard to find. This is noted in the transect description in the spreadsheet. Two photos were taken at each transect: ne from the start and one from the end of the transect both in the direction of the transect line.

Data on vegetation community and health are centred around the transect. Plants were individually tagged with stainless steel tags etched with unique numbers. These were either nailed (in the case of large trees) with galvanised roofing nails or tied with stainless steel MIG wire for shrubs and small trees. Tied tags are located at either the base of the plant or within the foliage, this is noted within the spreadsheet for each wetland.

To aid in plant re-location the following was recorded:

- Distance along the transect is the distance (in metres) from the start (the wetland end) of the transect;
- Distance off is the distance (in metres) from the transect to the centre of the base of the plant (unless otherwise specified in the Plants Measured To part of the database). The latter relates to a single wetland (W009), a dense thicket of *Melaleuca viminea*, where the base of the plant was hard to discern; and
- Direction describes which side of the transect each plant is located and given as compass meridians (North, East, South and West). Note, these are not absolute directions but rather a guide to the side of the transect.

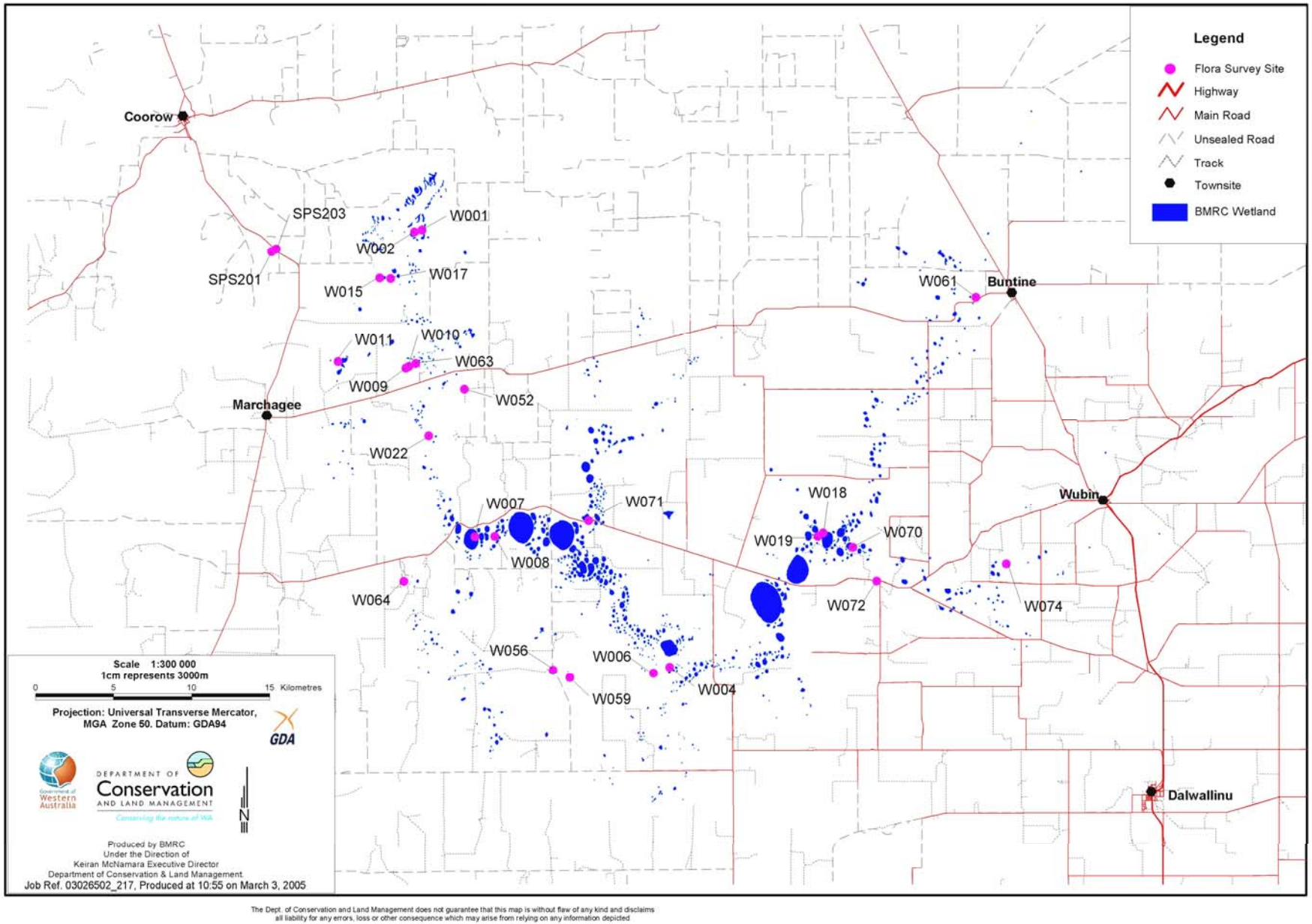

Figure 1: The location of the wetlands with transects established relative to local towns, roads and other wetlands.

In some instances (W009, W010 and W063) where there were few or no trees between the wetland edge and upper slopes of dunes, the ground strata were mapped using the point intercept method: recording the intercept of each plant species (in several size classes), bare ground and leaf litter along the transect.

Plant Health

The health of each plant was scored using the technique of Ladd (1996 in Gurner *et al.* 1999). In this method crown density, number of dead branches and epicormic growth are each categorised in one of five groups. While this technique was developed for Eucalypts it is applicable to all trees and shrubs in this project. It is recommended that future data collectors become familiar with this technique and variation within a species prior to using this technique.

Plant species, size classes and taxonomy

Plants used in this baseline are typically deep-rooted perennials, except where the point-intercept method (above) was used.

Size classes were defined for each species, the intent being to simply capture the range of sizes of each species. These were defined arbitrarily for each species at each wetland, thus these classes should not be used in other areas.

Vouchers were taken of each species for identification in Perth and lodged with the State Herbarium. For those specimens with no species identification, the genera and the voucher name (prefixed with JMR) are given. Field identifications of *Melaleuca uncinata* are designated *Melaleuca uncinata* complex as this species has now been divided into 14 discrete taxa (Craven *et al*, 2004). It is recommended that during repeat surveys that fertile vouchers are taken of these species, taxonomy confirmed and both this document and the data spreadsheets are updated.

Community Transects

To capture some generalities of community structure and ground strata plants along the transect, a community transect was recorded. Here, changes in community composition (principally ground cover) were recorded along the length of the transect. As this is a generalisation it may average the location of a change in community and should not be considered as absolute values.

Existing Vegetation Mapping

Mapping of vegetation surrounding the wetlands exists for most of the sampled wetlands (except W001, W002, W052, SPS 201 and SPS 203). This vegetation mapping was developed by CSIRO Sustainable Ecosystems (Lyn Atkins) and CALM contractors between September 2001 and December 2002 as part of the 'Landscape design for Bird Conservation in Buntine Marchagee Catchment' project (CSIRO, 2004).

The mapping was developed through the use of Landsat TM satellite images and aerial photographs and ground truthed with field visits. Patch boundaries were then digitised using hand drawn maps prepared during the ground truthing process. The different associations (patches) identified were assigned to broader vegetation association classes.

Where mapping existed it was checked for accuracy in the area immediate to the wetland and commented on where appropriate. In instances where vegetation mapping did not exist notes were made of the vegetation communities surrounding the wetland.

Fauna Notes

At many of the wetlands notes on the fauna seen were recorded. These records were fortuitous sightings while establishing transects and should be regarded as such.

Results

The location and a brief description of the fringing vegetation for each wetland is contained in Table 1. A description of each of the wetlands is given below. Data from the baseline transects is presented in the appendices and in a spreadsheet on the attached CD. Transect photographs are on also on the CD. Notes on fauna are given in Appendix G.

W001

A large gypsum wetland within the paleodrainage, dry at the time of sampling. No vegetation mapping exists for this wetland. The wetland surrounds are dominated by *Melaleuca uncinata* complex with *Eucalyptus brachycorys* occasional on the northern, eastern and southern sides. The northern side is, generally, *M. uncinata* complex over heath (*Darwinia diosmoides*). The western side is fringed with *M. uncinata* complex with a York Gum (*Eucalyptus loxophelba*) community behind. *Allocasuarina acutivalvis* appears around the wetland. *Melaleuca eleuterostachya* appears interspersed through *M. uncinata* complex. There may be more than one species of the formerly *M. uncinata* complex at this wetland.

The landholder informs us that the area abutting the wetland was destocked. Prior to this the landholder believed that there was a "sensible" stocking regime from 1905 to 1974, with the area used for lambing ewes from 1974 to 1987.

The transect is located on the western side of the wetland, going through a Melaleuca (*Melaleuca atroviridis* and *Melaleuca eleuterostachya*) to a York Gum (*Eucalyptus loxophelba*) community.

W002

A large saline wetland, within the paleodrainage wet at the time of sampling. Two macrophytes were collected from the wetland: the monocot *Ruppia* sp. and the macroalgae *Charales* sp. *Ruppia* sp. had been previously collected from this wetland by Andrew Story on 24/8/04.

No vegetation mapping exists for this wetland. The eastern side of the wetland is a Jam and York Gum woodland with *M. uncinata* complex and *M. eleuterostachya*.

The transect has been placed on the northern side of the wetland going through a Melaleuca shrubland (dominated by *M. uncinata* complex, both small and large leaf forms, with the occasional *Acacia acuminata*, *Melaleuca lateriflora* subsp. *acutifolia*) extending into and through a York Gum community. The transect terminates at the edge of this York community. The transect was placed to correspond with the permanent shallow bore.

W004

A medium sized hypersaline wetland fringed by samphire under dead Melaleuca, part of the main drainage system. The transect is on the western side running from the edge of samphire up into a sandy rise across a series of drainage lines running perpendicular to the transect. These drainage lines can be seen in the community transect as areas with dead/dying Melaleuca sp., for instance from 40.9 to 52.8, 58.5 to 70.3 and 76.8 to 83.3 metres along the transect. These small drainage lines are separated by slight rises in the landscape and where more healthy stands of Melaleuca are found. There is also a variation in the species community along the transect, possibly reflecting these drainage lines and the change in slope with Melaleuca sp. (JMR29) found only at the end of

Table 1: Transect information and status of existing vegetation mapping for each of the wetlands.

Patch Number	Date Sampled	Zone	Transect Start		Transect End		Transect Direction (degrees)	Transect Length (m)	Existing vegetation mapping?
			Easting	Northing	Easting	Northing			
W001	23/11/2004	50J	0420603	6686708	0420503	6686691	260	100	N
W002	23/11/2004	50J	0420131	6686914	0420086	6687027	340	120	N
W004	29/11/2004	50J	0436600	6658700	0436504	6658674	260	100	Y
W006	30/11/2004	50J	0435559	6658398	0435520	6658440	310	58.3	Y
W007	10/12/2004	50J	0423437	6666953	0423281	6666907	270	165.7	Y
W008	6/12/2004	50J	0425393	6667319	0425451	6667431	30	129.4	Y
W009	7/12/2004	50J	0419713	6677921	0419704	6677886	200	38.7	Y
W010	7/12/2004	50J	0419913	6678036	0419910	6678000	180	39.8	Y
W011	25/11/2004	50J	0415666	6678560	0415633	6678594	280	49.5	Y
W015	24/11/2004	50J	0418076	6683727	0418097	6683645	170	85.6	Y
W016	24/11/2004	50J	see W017						Y
W017	24/11/2004	50J	0418709	6683686	0418517	6683656	270	195	Y
W018	9/12/2004	50J	0446371	6667059	0446285	6667040	260	86	Y
W019	9/12/2004	50J	0446136	6667667	0446210	6667038	295	80.3	Y
W022	7/12/2004	50J	0421191	6673566	0421138	6673579	270	60	Y
W052	8/12/2004	50J	0423465	6676632	0423432	6676662	310	50.6	N
W056	30/11/2004	50J	0429178	6658543	0429175	6658585	350	40	Y
W059	30/11/2004	50J	0430336	6658053	0430420	6658032	105	91.4	Y
W061	9/12/2004	50J	0456360	6682592	0456426	0682554	125	76.4	Y
W063	26/11/2004	50J	0420388	6678239	0420403	6678262	30	27.4	Y
W064	8/12/2004	50J	0419567	6664262	0419521	6664235	230	52	Y
W070	9/12/2004	50J	0448241	6666227	0448246	6666133	170	94.2	Partial
W071	8/12/2004	50J	0431500	6668695	0431632	6668660	120	137.9	Y
W072	10/12/2004	50J	6449861	6664245			90		Y
W074	9/12/2004	50J	0458280	6665415	0458321	6665444	60	54.5	Y
SPS201	1/12/2004	50J	0411087	6685496	0411039	6685479	255	56	N
SPS203	1/12/2004	50J	0411368	6685737	0411334	6685748	285	34.8	N

the transect, above the present effects of waterlogging, likewise *Melaleuca thyoides* is only found mid-transect.

The wetland was wet at the time of transect establishment. During a reconnaissance trip (22/11/04) a filamentous brown algae was present but was dead and heavily calcified during transect establishment and was not collected.

The present vegetation mapping shows these trends: dead Melaleuca over samphire in drainage lines (BM448/25) near the edge of the wetland, going to Melaleuca sp. (JMR29) dominant at the end of the transect. This latter community is inconsistent with the present mapping at least of the eastern side of the sandy rise on which we were working. The mapping for this area describes the community (BM448/66) as Tamma with Myrtaceae understorey.

W006

A small hypersaline wetland forming part of the paleodrainage system. It was wet at the time of sampling but no wetland plants were present. The transect was established on the northern side of the wetland going from a dead Melaleuca to live Melaleuca sp. (JMR32) over samphire into a mixed shrubland. Vegetation mapping exists for this wetland and is correct: Melaleuca shrubland (usually dead or dying but healthy individuals in areas above drainage) over samphire close to the wetland extending into mixed shrubland with sedge understorey above the drainage system.

W007

A large hypersaline wetland with a distinct lunette around the edge, particularly on the western side. The transect was placed on the western side of the wetland though a York Gum community. Other areas around the wetland were too high in the landscape to show any pattern from waterlogging (for instance the York community in the north-east side or the Casuarina community on the western side), or the gradient is too steep to show any patterns (for instance the Swamp Oak community on the south-eastern side).

The transect extends over the lunette and down-slope to the paleodrainage on the western side of the wetland.

There is existing mapping for the wetland and this is consistent with what was seen around the wetland.

W008

A medium size hyper-saline wetland dry at the time the sampling. Mapping of the fringing vegetation was consistent with what was seen on the ground: Melaleuca and Acacia shrublands with a large stand of York Gum/Jam Woodland on the eastern side. The transect was placed in the NE side of the wetland over the small lunette and down slope through a through a *Melaleuca lateriflora* subsp. *acutifolia* community towards (and up to) a Samphire wetland on the eastern side.

To the east of the transect is a large patch of York Gum. This community is not in healthy condition (roughly scored 5,5,4).

There is a hardpan approximately 20 cm below the soil surface readily seen at the wetland edge.

W009

A small brackish wetland with high levels of ongoing sheep disturbance. This wetland along with the nearby W010 and W063 are upslope from but alongside the paleodrainage. This wetland is separated from W010 by a fence, with sheep also accessing the later (albeit in lower numbers). The

little fringing vegetation remaining is dominated by *Melaleuca viminea*, particularly in the SW corner where the transect was established. Elsewhere there are a couple of mature adult *Casuarina obesa* and some dying Banksia. This vegetation, and that to the north of the wetland (where the sheep impact appears to be less) is consistent with the existing mapping.

Ruppia sp. (possibly *megacarpa*) and the algae *Lamprothamnium* sp. were collected from this wetland.

The transect was located beside a very dense thicket of *M. viminea*. This was the only area that fulfilled an away from water vertical gradient. However, it appears that this area is also the location of a seep and this seep may have slowed judging from the dead Melaleuca stand above the present thicket. Also the sand here is damp well above the present water line. To capture this information an intercept transect of ground cover (mainly *Juncus acutus*) was used.

Because of the thickness of the vegetation, distance off transect is to the edge of the vegetation with the tag placed at the distance measured along the transect.

W010

A small concave sand based brackish wetland surrounded by *Juncus acutus.* The lunette upslope from the wetland is a mixed shrubland, consistent with existing mapping. Between the shrubland and *J .acutus* edge is a bare sandy area.

Ruppia sp. and the algae *Chara* sp. were collected from this wetland.

As there was no immediate gradient and no perennial trees or shrubs near the wetland (except for a single *Allocasuarina* sp.) no plants were tagged. Instead *J. acutus* extent was mapped (intercept method) and the location of a few trees (albeit well above the influence of waterlogging) were recorded by their distance along and off the transect. The transect runs from the edge of the Juncus onto the plateau of the surrounding lunette.

W011

A large freshwater/brackish wetland consisting of two main bodies separated by sandy spit at time of transect establishment. The transect is located in the more eastern of the two wetlands on the north-western side.

Fringing vegetation of the wetlands consists of Melaleuca sp. (JMR28), *Baumea rubiginosa*, and *Juncus acutus*. Above this, on sandy slopes are Banksia woodland (predominately *B. prionotes*) or heathland. This is consistent with existing vegetation mapping.

The transect is located through an area of Melaleuca sp. (JMR28) extending from the waters edge through dead/dying Melaleuca sp. (JMR28) up onto the edge of abutting sandy rise.

W015

A series of small freshwater "seeps" (three noticed at the time of sampling) the larger ones fringed/covered with *Juncus acutus* and *Thypa domingensis*. One smaller seep downslope (to the east) is 1 metre across and devoid of wetland vegetation. These seeps are along a gentle spur that runs down to W016. On either side of this spur is samphire and the occasional dead/dying River Red Gum (*Eucalyptus camaldulensis*). The top of the spur is where W015 (the largest of the seeps) is found. The spur appears to start at a calcrete wall, particularly noticeable on the southern side. Above this "wall" (at the western end) is, generally, *Casuarina obesa* woodland. This is consistent with the present mapping.

There appears to be a complex and fluctuating water flow history at this site. For instance, just west of W015 is a stand of River Red Gum recruits that appear to be now dying due to lack of water. Similarly, the smaller seep mentioned above appears quite recent and/or temporary.

The transect was placed across (north to south) the spur and W015, starting and ending in the samphire on either side of the spur.

W016

See W017

Dry at the time of our sampling but a specimen of *Ruppia* sp. was collected from here on the 25/8/04.

W017

The transect was established between W016 and W017. There is a *Casuarina obesa* community between these two wetlands showing a pattern of dead/dying at either end of the transect (from the western edge of W017 to near the eastern edge of W016) with healthy plants in between. These wetlands are to the east of and above the paleodrainage, but there is a relict (and small drainage line) south of the *C. obesa* community. Fringing W016 are River Red Gums (*Eucalyptus camaldulensis*). This is consistent with the existing mapping

This wetland was dry at the time of sampling.

W018

A large hypersaline wetland (used as a ski lake) part of the paleodrainage, permanently wet with little remnant vegetation. The north of the lake is cleared except for a narrow strip of fringing vegetation, elsewhere there are trees and shrubs on the lunette with samphire below.

The transect was placed on the western side of the lake near the existing boat ramp extending from the wetland and downslope through York Gum with *Melaleuca uncinata* complex and *Melaleuca thyoides* at the edge of the samphire which is part of the drainage system. The transect was established to capture the York Gum community high on the lunette as well as the *Melaleuca thyoides* to the west. An area 50 m either side of the transect was searched for York Gum recruits and juveniles; their location, size and condition has been recorded with the data, these were not tagged. Likewise a stand of *Melaleuca hamulosa*, small stands of *Santalum acuminatum* and *Acacia eremaea* were recorded.

The only existing vegetation mapping is for the northwestern side of the wetland and this needs revision to capture the York Gum stand. There is no vegetation mapping around the rest of the lake and the following notes were taken during the visit:

- The northern end of the wetland is a narrow strip of vegetation dominated by *Casuarina obesa* and *Allocasuarina acutivalvis*.
- There is some York Gum in the SE and SW corner on the lunette edge.

W019

A small hypersaline wetland part of and surrounded by the paleodrainage channel, dry at the time of sampling. Besides samphire there is little vegetation nearby this wetland except towards the north and east. To the north there is a substantial slope that was considered too high to show meaningful patterns. To the east was a small hummock of (mainly) *Melaleuca uncinata* complex that is largely unhealthy but considered appropriate for this program. It may be, however, too responsive to large flooding events. To the west of W019 is a small spur beside a large (approximately 600m north to south) wetland. Should on-ground works occur in this area there is potential to place another

transect across this spur as it shows a good pattern of unhealthy York Gums lower in the landscape (on both sides of the spur) to healthy above.

The existing vegetation mapping nearby to this wetland is consistent with what was seen on the ground at this location, but see comments for W018 to the east. To the south of this wetland the vegetation type BM403/21 is not consistent with the extant community: there is a much higher density of York Gum than stated in the existing mapping.

W022

A bentonite based wetland with a cover of Samphire, fringed with *Casuarina obesa*, dry at the time of sampling. This wetland is outside the main part of the paleodrainage. The existing vegetation mapping is consistent with what was seen on the ground: *C. obesa* in and around the wetland, Melaleuca shrubland to the north and west of the wetland with mixed shrubland with emergent Banksia elsewhere.

W052

A small freshwater wetland, high in the landscape well above and east of the paleodrainage channel. The existing wetland is dominated by *Thypa domingensis* and appears permanently wet possible due to earthworks leaving a cavity for water to accumulate, heading to the south is an overflow (apparently man made) with *T. domingensis*. To the north of the wetland is a thick impenetrable stand of tall (+5m) *Melaleuca hamulosa*. There is no existing vegetation mapping for this wetland.

The transect is located to the north and west of the permanent waterhole extending from the edge of the *Melaleuca hamulosa* stand and heading approximately NW. All recruits were recorded within 3 metres either side of the transect.

W056

A small wetland outside of the paleodrainage, dry at the time of sampling. The wetland has occasion fringing River Red Gum (*Eucalyptus camaldulensis*) on all but the western side. On the western and south-western edge is largely Jam (*Acacia acuminata*). Upslope (to the south) of the Jam community is Banksia woodland. The transect was placed in the River Red Gum on the NNW side of the wetland. High in this transect is the occasional *Gahnia trifida*. Forty-four metres from the start of the transect is the edge of the mixed shrubland.

The River Red Gums were sparse and recruits of this species were searched in the surrounding area (over 50m off transect). The locations of these are:

- 10 metres east of tree # 320, 30cm high
- 5m south of tree # 320, 1.2 m high
- 12m 30 degrees from tree # 320, 50 cm high
- 12m 30 degrees from tree # 320, 150 cm high
- 17m 330 degrees from tree # 318, 50cm high

W059

A bentonite wetland out of the paleodrainage channel, dry at the time of sampling. The transect was run from the edge of the wetland, up a gentle slope through the surrounding *Casuarina obesa* woodland and into the abutting shrubland on sand. The existing vegetation mapping is correct.

W061

A small hypersaline wetland within the paleodrainage channel, dry at the time of sampling. The transect was placed in the south-eastern end of the wetland. The vegetation mapping is correct for the vegetation abutting the wetland.

The transect runs from the wetland edge of the samphire through a area of dead Melaleuca over samphire, later it extends into Melaleuca sp. (JMR8), *Melaleuca uncinata* complex and ultimately into York Gum and Jam. In this transect these were the only species tagged, small occasional shrubs were ignored.

W063

A small wetland covered with *Juncus acutus*, dry at time of sampling. This wetland like the neighbouring (W009 and W010) are above the nearby paleodrainage (to the east). W063 is further down slope from the near neighbours with a samphire area immediately to the southeast.

This wetland is small and concave with a sandy substrate. The ground slopes gently up from the wetland into Banksia woodland, as per existing vegetation mapping. Surrounding this wetland is numerous *Casuarina obesa* ranging from mature adults to recruits. A transect from within the wetland at a point of change to a steeper gradient (assumed to be a fill point) north-east up into the sandy lunette. Both the *C. obesa* and *J. acutus* were sampled, the former by the usual transect method, the latter by intercept method. The Juncus here, too, appeared to be higher upslope than would have been expected.

W064

A wetland that was reputedly a swimming hole and dried after the Meckering earthquake. Clearly, it has been dry for some years as seen by the growth of *Allocasuarina acutivalvis* and *Pinus pinaster* on the wetland floor.

The existing vegetation mapping appears correct although the southern end of the wetland's fringing vegetation was not checked.

The transect runs from the middle of the wetland floor and runs up onto near the top of the slope on the WSW side. Notwithstanding the occurrence of *Leptospermum* sp. on the wetland floor and *Acacia* sp. *and Banksia* sp. on the slopes only the health and location of *A. acutivalvis* and *Melaleuca viminea* was recorded.

W070

A small hypersaline wetland at the junction of two paleodrainages. While wet at the time of sampling there was no aquatic vegetation. The transect was located at the SSE end of the wetland extending through a York Gum community. Vegetation mapping only exists on the northern side of the wetland which is an area of Melaleuca/Acacia shrubland. To the east and south is York Gum. To the west is samphire across the salt flat.

W071

A small hypersaline wetland that is part of the paleodrainage; dry at the time of sampling. The transect is located abutting a small salt flat at the north-eastern end of the wetland. Vegetation mapping exists for the eastern edge of the wetland (there is little remnant vegetation elsewhere) and is correct: samphire leading up to a Eucalypt community (probably *Eucalyptus loxophleba* subsp. *loxophleba;* JMR33) community on a slight rise, terminating at a samphire community downslope and to the east of the start of the transect.

W072

A gnamma hole within a Crown Reserve vested in the Local Government (Dalwallinu Shire). For monitoring we used a patch of York Gums 56m to the east of the middle of the water hole. We used a York Gum (Tree number 817) as a reference point to be used to find the other trees.

The existing vegetation mapping is correct.

W074

A clay based wetland out of the paleodrainage, dry at the time of sampling surrounded by York Gum Woodland. The landholder believes that there are salinity issues upslope (to the north). The transect runs from the northeastern corner. The existing mapping is correct.

SPS 201

A small hypersaline wetland, dry at the time of sampling. There is no existing mapping for the wetland. The surrounding vegetation is, generally, *Melaleuca halmaturorum* on the western side going up to a Banksia woodland. On the south and eastern side is a Mallee community (*Eucalyptus* aff. *horistes*).

The transect is located on the western side of the wetland. It starts in an area of samphire under dead mature (>3m) Melaleuca sp., terminating beyond the fringing *M. halmaturorum* zone. The average health score of this species is 16, with a trend on increasing health with distance from the start of the transect.

SPS 203

A small hypersaline wetland, dry at the time of sampling. There is no existing mapping for the wetland. Melaleucas dominate the wetland edge. Upslope from these, on the western side is sand dominated by Banksia and Actinostrobus. Between these are scattered shrubs.

There is evidence of increasing watertable at this wetland with numerous large dead Melaleucas at the transect start and dead juvenile Melaleucas 5.7 metres from here. The transect starts at the wetland edge (defined by an inflection in the slope) follows a gentle slope through at least seven species of Melaleuca appear in the transect with *Melaleuca thyoides* closest to the wetland.

Recommendations

- These wetlands should be resampled in three years time using the methods outlined above. As the health categories are not largely influenced by normal yearly cycles the season of sampling is unimportant.
- As the hydrology of wetlands is complicated and poorly understood the region should consider the installation of further transects around these wetlands.
- Fertile specimens of all species designated *Melaleuca uncinata* complex and any plants not identified to species level in this report or in the attached spreadsheet be collected, vouchered with State Herbarium and data updated accordingly.
- It is recommended that future data collectors become familiar with the technique of plant health methods prior to data collection.

References

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Gurner, R., Froend, R. and Ogden, G. (1999) Salinity Action Plan Wetland Vegetation Monitoring 1998/1999. Edith Cowan University, Perth WA.

CSIRO (2004) Landscape design for bird conservation in Buntine-Marchagee Catchment, Western Australia. CSIRO report on Component 1 of Project CSE9: Testing approaches to landscape design in cropping lands for Land & Water Australia and WA Dept. of Conservation and Land Management. CD produced by CSIRO Sustainable Ecosystems.

Appendix A: Data collection sheets

Site Description

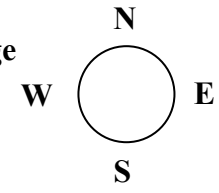
Wetland ID number…… **Date**…… **Recorders**……..….

Landholders Name…… **Phone Number**…….

Map (showing gazetted roads and property tracks)

Transect Start (WGS 84 datum): Zone ___coord's _____E _____N

Transect Direction……**Transect location in relation to wetland edge**



Transect profile slope Flat__Gentle Slope__Steep Slope__Undulating__

Film and photo number…….

Water plants collected_____

Category of Fringing vegetation_____

_____

Category of wetland vegetation_____

_____

Disturbances

Notes **Present Mapping Checked □**

Transect Data Sheet

Wetland ID number……..… **Date**…… **Transect Length**……. **Wetland Wet Dry**

Size Class Definition

Species……. Adult…… Subadult……..……...……..…Juvenile……

Species……. Adult…… Subadult……..……...……..…Juvenile……

Species……. Adult…… Subadult……..……...……..…Juvenile……

Community transect

Start

……..……

Transect Data

				Transect length			Crown Assessment		
Tag #	**Species**	**Size Class**	**Voucher**	**Along**	**Off**	**Direction**	**D**	**B**	**G**

				Transect length			Crown Assessment		
Tag #	Species	Size Class	Voucher	Along	Off	Direction	D	B	G

Data sheet field description

General Information

- *Wetland ID number:* the unique wetland identifier used by Buntine-Marchagee Catchment staff.
- *Landholders Name and contact information:* on the date of sampling.
- *Transect Location:* identified by GPS reading (WGS 84 datum) and relative position of transect around the wetland edge.
- *Transect Direction:* the compass direction of the transect from the wetland end of the transect.
- *Transect slope profile*: a generalisation of the ground slope along the transect.
- *Water plants collected*: marcophytes collected from the wetland.
- *Disturbances:* general comment on any noticeable disturbances, besides water logging along the transect.
- *Transect Wet/Dry:* an indication whether the wetland contained free standing water on the date of sampling.
- *Size Class definition:* for each species the arbitrary division used to separate between juveniles, sub-adults, adults and mature adult plants. These may be height or dbh.
- *CommunityTransect:* measures along the transect of changes in plant communities at tree, shrub and ground strata layers. Also changes in status of communities (bands of live or dead trees and shrubs).

Transect data

- *Tag Number*: The unique tag number assigned to each tree/shrub, these will be on stainless tags nailed or wired to the plant.
- *Size Class*: the size class of the tree/shrub as identified in General Information above.
- *Voucher*: indicated only when a voucher specimen taken.
- *Transect length*: the length along and off the transect as well as which side of the transect the plant of interest is on.
- *Crown Assessment:* Assessment of plant health using crown density (scored from dense to very few remaining leaves), dead branches (scored from none to many) and epicormic growth (scored from none to severe), see main document.

Appendix B Vegetation and disturbance description for each of the sampled wetlands.

Patch #	Date of sample	Disturbances	Existing vegetation mapping?	Fringing Vegetation
W001	23/11/04	Historic grazing	N	Melaleuca
W002	23/11/04	None	N	Samphire, leading into Melaleuca uncinata complex.
W004	29/11/04	None	Y	Samphire with dead M. uncinata complex
W006	30/11/04	None	Y	Samphire with Melaleuca
W007	10/12/04	None	Y	Melaleuca
W008	6/12/04	None	Y	Melaleuca
W009	7/12/04	Many sheep using water	Y	Juncus acutus merging with Melaleuca viminea
W010	7/12/04	Some sheep	Y	Juncus acutus
W011	25/11/04	None	Y	At transect Melaleuca.
W015	24/11/04	None	Y	Juncus acutus
W016	24/11/04		Y	See W017
W017	24/11/04	None	Y	Casuarina obesa
W018	9/12/04	Transect near boat ramp and camping	Y	Samphire with C. obesa, M. uncinata and York Gum on high ground (lunettes)
W019	9/12/04	None	Y	Samphire leading up to narrow dune with Melaleuca lateriflora subsp. acutifolia and Melaleuca uncinata complex dominates
W022	7/12/04	None	Y	Casuarina obesa
W052	8/12/04	Earthworks	N	Melaleuca hamulosa
W056	30/11/04	None	Y	Samphire immediately around wetland grading into Atriplex vesicaria. and either Eucalyptus camaldulensis or Jam (Acacia acuminata), see discussion.
W059	30/11/04	None	Y	Casuarina obesa
W063	26/11/04	None	Y	Juncus acutus with Casurina obesa
W061	9/12/04	None	Y	Samphire at edge of wetland leading into Melaleuca lateriflora acutifolia and Melaleuca uncinata with York Gum and Jam community behind this
W064	8/12/04	None	Y	Not a typical wetland, has not held water for some years the fringing vegetation is that

Patch #	Date of sample	Disturbances	Existing vegetation mapping?	Fringing Vegetation
				mapped: sandplain. Within the wetland is Allocasuarina acutivalvis and Melaleuca viminea
W070	9/12/04	None	Partial	York Gum
W071	8/12/04	None	Y	Samphire at wetland edge, Eucalyptus loxophleba subsp. loxophleba (JMR33) community above.
W072	10/12/04	None	Y	York Gum and Jam on granite
W074	9/12/04	None	Y	York Gums
SPS201	1/12/04	None	N	Melaleuca shrubland
SPS203	1/12/04	None	N	Melaleuca shrubland

Appendix C Community transect for each of the Wetlands

Wetland Number	Date	Start (m along transect)	Finish (m along transect)	Notes
SPS201	1/12/2004	0	14.8	Samphire under dead Melaleuca sp. (>3 m)and some dead Casuarina obesa
SPS201	1/12/2004	14.8	33.1	As above but dead Melaleuca sp smaller than above <1.5 m, samphire ends at 33.1
SPS201	1/12/2004	33.1	38.8	Alive but unhealthy Melaleuca sp, Gnephosis arachnoidea on ground. Imporved health at the end of this section. To the north of transect (at 37.5 m along, 6m off) 2 dead Actinostrobus sp.
SPS201	1/12/2004	38.8	42.7	On transect no Melaleuca ground bare (white sand) except for the occasional Gnephosis arachnoidea (now dead).
SPS201	1/12/2004	42.7	48.7	Live section of Melaleuca, little ground cover
SPS201	1/12/2004	48.7	56	Change in community, occasional Melaleuca trichophylla, Lepidobolus sp.
SPS203	1/12/2004	0	2.5	Samphire under dead Melaleuca sp.
SPS203	1/12/2004	2.5	7.9	On ground a few dead Gnephosis arachnoidea, some dead Melaleuca
SPS203	1/12/2004	7.9	10.4	Start of live Melaleuca thyoides, some Gnephosis arachnoidea on ground, otherwise bare sand
SPS203	1/12/2004	10.4	13	Bare white sand with a few Gnephosis arachnoidea, occasional samphire
SPS203	1/12/2004	13	27	Thick section of Melaleuca (varying health) with Gnephosis arachnoidea.
SPS203	1/12/2004	27	34.8	End of thick section of Melaleuca on transect. Melaleuca trichophylla starts here.
W001	23/11/2004	0	2.6	Slope up from wetland
W001	23/11/2004	2.6	8.6	Bare ground
W001	23/11/2004	8.6	12.6	sparse Samphire (Halosarcia leylei) with dead stumps of ? Melaleuca
W001	23/11/2004	12.6	16.6	Bare ground
W001	23/11/2004	16.6	25.8	Band of juvenile Melaleuca sp. (JMR52) up to 2 m high (not tagged), also many fallen adult (+3 metre high) M.uncinata complex.
W001	23/11/2004	25.8	36	No Melaleuca or York, Everlastings start
W001	23/11/2004	36	100	Sparse York gum woodland
W002	23/11/2004	0	4.9	From edge of wetland up to 'plateau' samphire
W002	23/11/2004	4.9	10.3	Bare ground with occasional Samphire
W002	23/11/2004	10.3	11.8	Everlastings on ground, start of Melaleuca woodland
W002	23/11/2004	11.8	72.2	Dense Melaleuca shrubland (primarily M.uncinata complex)
W002	23/11/2004	72.2	120	York gum woodland
W004	29/11/2004	0	8.7	Scattered samphire community with dead Melaleuca sp.
W004	29/11/2004	8.7	17	Bare ground with the occasional ephemeral

Wetland Number	Date	Start (m along transect)	Finish (m along transect)	Notes
W004	29/11/2004	17	27.2	Start of live M. uncinata complex
W004	29/11/2004	27.2	31.7	bare ground
W004	29/11/2004	31.7	36.8	M. uncinata complex live
W004	29/11/2004	36.8	40.9	bare ground
W004	29/11/2004	40.9	47.6	M. uncinata complex live and dead
W004	29/11/2004	47.6	52.8	Bare ground at transect but a line of dead/sick Melaleuca thyoides either side of transect
W004	29/11/2004	52.8	58.5	Melaleuca thyoides healthy
W004	29/11/2004	58.5	70.3	Band of dead/dying Melaleuca thyoides
W004	29/11/2004	70.3	76.8	Healthy Melaleuca
W004	29/11/2004	76.8	83.3	bare ground with dead/dying Melaleuca
W004	29/11/2004	83.3	100	Melaleuca thyoides healthy.
W006	30/11/2004	0	13.4	Samphire and dead Melalueca sp. (JMR32)
W006	30/11/2004	13.4	43	Alive Melaleuca sp (JMR32), some samphire, some bare ground, some Melaleuca sp. (JMR30) (all dead)
W006	30/11/2004	43	58.3	Melaleuca trichophylla , Melaleuca sp (JMR32) alive, Melaleuca sp. (JMR30) (dead), occasional sedge and Lepidobolus sp.
W007	10/12/2004	0	5	Transect starts at approximately wetland edge of very sparse samphire goes up to near top of lunette, ground largey bare, soil soft
W007	10/12/2004	5	16.9	At 5 metres edge of seep line above here some samphire, Mesembryanthemum aitonis with dead grasses. Through fenceline at 12.2 metres. 16.9 metres top of lunette
W007	10/12/2004	16.9	165.7	York gum woodland, on ground occasional Maireana, everlatings, dead grass. Towards end of transect occasional Borya. Transect ends at eastern edge of samphire in "overflow" to the west of W007.
W008	6/12/2004	0	10.4	Edge of wetland with occasional samphire, gentle slope to a point of steep inflection. Some dead Melaleucas (off transect) in this band.
W008	6/12/2004	10.4	15.8	Up steep rise. At top of rise which slowly declines away from wetland is the start of the grasses/everlastings and live shrubs.
W008	6/12/2004	15.8	42	Band of grasses (wildoats and occasional Vulpia sp.)x. Melaleucas both live and dead, ground cover quite thick.
W008	6/12/2004	42	49	Ground cover more open occasional Maireana.
W008	6/12/2004	49	89.8	Patches of grasses and open ground, from 52.5 to end of this band almost all Melaleucas dead.
W008	6/12/2004	89.8	110.3	Dead herbaceous ground cover with occasional grass, Frankenia sp. (occasional) starting around 108 metres, most shrubs dead.
W008	6/12/2004	110.3	129.4	Ground cover sparser than above, increase in density of Frankenia
W009	7/12/2004	0	2	Bare ground/wet sand
W009	7/12/2004	2	7.4	Juncus acutus
W009	7/12/2004	7.4	16.3	Band of live M. viminea

Wetland Number	Date	Start (m along transect)	Finish (m along transect)	Notes
W009	7/12/2004	16.3	27.4	Band of dead and fallen down Melaleuca sp.
W009	7/12/2004	27.4	38.8	Dead grass/bare ground
W010	7/12/2004	0	19.1	Juncus acutus adult, 19.1 the end of the main band of Juncus
W010	7/12/2004	19.1	25.4	Band of sub-adult and recruit Juncus acutus
W010	7/12/2004	25.4	39	Start of main band of Melaleuca sp. (JMR31)?
W011	25/11/2004	0	4.6	Bare moist soil
W011	25/11/2004	4.6	22.3	Sparse Melaleuca sp (JMR28)
W011	25/11/2004	22.3	34	Dead Melaleuca sp (JMR28)
W011	25/11/2004	34	37	Bare Ground
W011	25/11/2004	37	49.5	Thick band of healthy Melaleuca, slight rise to dry sand
W015	24/11/2004	0	23.4	Samphire (sparse), main stand of Eucalypts starts at 19 metres
W015	24/11/2004	23.4	40.8	reduced samphire
W015	24/11/2004	40.8	53.7	Across wetland measured from start to end of Juncus acutus
W015	24/11/2004	53.7	85.6	Samphire increasing with distance from wetland
W017	24/11/2004	0	17.1	Sparse Samphire
W017	24/11/2004	17.1	32	Dead grass and occasional Samphire sp.
W017	24/11/2004	32	46.9	On a gentle decline from approx. 32 m, Dead grass and occasional Samphire sp. 2 x Casuarina obesa
W017	24/11/2004	46.9	150	Casuarina obesa woodland. At 46.9 band of dead adult C. obesa, Ground cover as above, ground rises from here in a gentle incline
W017	24/11/2004	150	195	At 150 m start of dead/sick C. obesa, increasing Samphire
W018	9/12/2004	0	7.4	From edge of lake upslope, 7.4 m end of occasional samphire
W018	9/12/2004	7.4	25.3	Track
W018	9/12/2004	25.3	75.5	Occasional dead grass, Darwinia sp.(occasional), Myrtaceous heath (usually dead), occasional samphire particularly towards end of this section
W018	9/12/2004	75.5	83.3	Section of live Melaleuca thyoides
W018	9/12/2004	83.3	86	Dead Melaleuca thyoides with samphire on the ground.
W019	9/12/2004	0	12.9	From edge of wetland Samphire dominate, steady decline ending in depression with predominatly dead samphire and the occasional live recruit
W019	9/12/2004	12.9	18.3	Depression as per above
W019	9/12/2004	18.3	40.8	Gentle slope up from depression samphire not as dense as first band, many dead samphires, many recruits

Wetland Number	Date	Start (m along transect)	Finish (m along transect)	Notes
W019	9/12/2004	40.8	80.3	Slope flattens, Melaleucas begin, ground strata changes to other Samphire species, occasional Rhagodia, some dead grasses. Transect finishes at eastern adge of this rise where the dense Samphire commences
W022	7/12/2004	0	13.8	Quite dense Casuarina obesa woodland
W022	7/12/2004	13.8	34.4	Band of (predominately) Melaleuca halmaturorum
W022	7/12/2004	34.4	51.8	Sparse Casuarina obesa, 51.8m is the length along transect of the last A.obesa
W022	7/12/2004	51.8	61	Mixed shrubland
W052	8/12/2004	0	13.8	Transect started at edge of live tall Melaleuca hamulosa, slope slightly away from wetland with occasional Juncus, Melaleuca hamulosaoccasional off transect ground cover dead grass.
W052	8/12/2004	13.8	24.9	Soil mositer than above, entered into Melaleuca hamulosa area, band of recruit Melaleuca hamulosa at 13.8
W052	8/12/2004	24.9	26.7	Band of Thypa domingensis in a small, moist depression
W052	8/12/2004	26.7	50.6	Soil dryer than above, ground cover dead grass, some Melaleuca hamulosa recruits, 50.6m is the start of the samphire.
W056	30/11/2004	0	7.7	Samphire with no overstory
W056	30/11/2004	7.7	26.7	Start of Atriplex vesicaria with Wild oats
W056	30/11/2004	26.7	40	Slope flattens, Atriplex vesicaria starting and Rhagodia sp
W059	30/11/2004	0	8.5	Casuarina obesa over dead everlastings
W059	30/11/2004	8.5	12.3	Patch of samphire and Atriplex sp. Underneath C. obesa
W059	30/11/2004	12.3	74.6	C. obesa over everlastings and some bare ground with the occasional samphire.
W059	30/11/2004	74.6	91.4	Slope increases goes into shrubland
W061	9/12/2004	0	14.9	Samphire under dead Melaleuca sp.
W061	9/12/2004	14.9	39	At 14.9 ground cover changed to Mesembryanthemum aitonis start of live Melaleuca uncinata, Melaleuca lateriflora acutifolia, occasional samphire
W061	9/12/2004	39	48.7	Dense band of live Melaleuca uncinata and Melaleuca lateriflora acutifolia, Mesembryanthemum aitonis occasional samphire
W061	9/12/2004	48.7	76.4	Soil almost all bare, occasional dead grass, occasional M.uncinata recruit approx. 10 in total within 10m either side of the transect
W063	26/11/2004	0	7.9	Mid-dense Juncus acutus to 5.9 m along, from 5.9m to 8.9 m bare ground
W063	26/11/2004	7.9	15.3	Band of Casuarina obesa, from 8.9 to 14.4 m band of (manily recruit Juncus acutus)
W063	26/11/2004	14.4	21.2	Bare ground, at 21.2 start of upslope vegetation (off transect)
W063	26/11/2004	21.2	27.4	Banksia shrubland
W064	8/12/2004	0	21.1	Placed in centre of wetland. Up to 21.1 m across floor of wetland with Allocasuarina acutivalvis, Leptospermum sp., Pinus pinaster and the occasional Melaleuca viminea
W064	8/12/2004	21.1	52	Up slope from wetland floor with occasional Allocasuarina acutivalvis and Banksia prionotes

Wetland Number	Date	Start (m along transect)	Finish (m along transect)	Notes
W070	9/12/2004	0	34.8	Samphire below dead Melaleuca sp.
W070	9/12/2004	34.8	43.5	At 34.8 increase in slope, end of samphire. On ground everlastings and grass(dead). York Gum above.
W070	9/12/2004	43.5	94.2	Slope flattens. Ground cover as above, with the occasional Maireana sp. At 84.2 is a track and change of ground cover to Gunniopsis sp. and end of York Gums.
W071	8/12/2004	0	7.9	Transect starts at slope inflection which is also the lower end of samphire. At 7.9m end of sparse samphire. Also some spare dead ephermerals
W071	8/12/2004	7.9	13.9	Sparse dead ephemerals
W071	8/12/2004	13.9	105	Grass and occasional shrubs under Eucalyptus loxophleba subsp. loxophleba (JMR33).
W071	8/12/2004	105	114.1	Band of Melaleuca (not on transect)
W071	8/12/2004	114.1	137.9	Grd cover (Mesembryanthemum aitonis). Most Melaleucas dead. At 137.9m end of Melaleucas, start of dense ground cover samphire.
W072	10/12/2004	0	11.4	Bare granite
W072	10/12/2004	11.4	56	Dead grass (wild oats) under York Gum and Jam
W074	9/12/2004	0	54.5	Gentle rise above wetland with York Gum dominant over Mesembryanthemum aitonis and dead grass

Appendix D Plant data

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
SPS201	1/12/2004	382	JMR15	Melaleuca	halmaturorum				33.9	1	S	1	1	4
SPS201	1/12/2004	383	JMR15	Melaleuca	halmaturorum		A		36	2	S	1	1	4
SPS201	1/12/2004	384	JMR15	Melaleuca	halmaturorum		A		35.9	0.85	S	3	3	4
SPS201	1/12/2004	385	JMR15	Melaleuca	halmaturorum		A		36.1	2.4	S	3	3	3
SPS201	1/12/2004	386	JMR15	Melaleuca	halmaturorum		A		38	2.9	S	1	1	2
SPS201	1/12/2004	387	JMR15	Melaleuca	halmaturorum		A		39.4	4.75	S	1	1	2
SPS201	1/12/2004	388	JMR15	Melaleuca	halmaturorum		A		38.1	0.4	S	3	3	3
SPS201	1/12/2004	389	JMR15	Melaleuca	halmaturorum		A		38.7	1.25	N	5	7	5
SPS201	1/12/2004	390	JMR15	Melaleuca	halmaturorum		A		42.9	1.5	N	5	7	4
SPS201	1/12/2004	391	JMR15	Melaleuca	halmaturorum		A		43.5	0.5	S	9	9	5
SPS201	1/12/2004	392	JMR15	Melaleuca	halmaturorum		A		44.2	1.4	N	5	7	4
SPS201	1/12/2004	393	JMR15	Melaleuca	halmaturorum		A		44	2.3	N	3	5	4
SPS201	1/12/2004	394	JMR15	Melaleuca	halmaturorum		A		44.4	1.9	N	5	7	4
SPS201	1/12/2004	395	JMR15	Melaleuca	halmaturorum		A		43.8	0.75	S	9	9	5
SPS201	1/12/2004	396	JMR15	Melaleuca	halmaturorum		A		46.2	0.8	S	9	9	5
SPS201	1/12/2004	397	JMR15	Melaleuca	halmaturorum		A		46.2	0		9	9	5
SPS201	1/12/2004	398	JMR15	Melaleuca	halmaturorum		SA		46.9	0.5	S	9	9	5
SPS201	1/12/2004	399	JMR15	Melaleuca	halmaturorum		A		47.6	1.4	S	9	9	5
SPS201	1/12/2004	400	JMR15	Melaleuca	halmaturorum		A		46	2.2	N	9	9	4
SPS201	1/12/2004	401	JMR15	Melaleuca	halmaturorum		A		46.8	2.2	N	9	9	4
SPS201	1/12/2004	402	JMR15	Melaleuca	halmaturorum		A		48.2	0.75	S	9	9	5
SPS201	1/12/2004	403	JMR15	Melaleuca	halmaturorum		A		53.5	3	S	9	9	4
SPS201	1/12/2004	not tagged	JMR15	Melaleuca	halmaturorum		R		34.3	0.1	S			
SPS201	1/12/2004	not	none	Casuarina	obesa		A		31.8	6	N	5	7	4

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
		tagged												
SPS203	1/12/2004	404	JMR22	Melaleuca	thyoides		A	Y	3.7	8	N	7	7	5
SPS203	1/12/2004	405	JMR22	Melaleuca	thyoides		A		4.3	14.2	N	3	3	5
SPS203	1/12/2004	406	JMR22	Melaleuca	thyoides		A		4.9	15.5	N	7	7	5
SPS203	1/12/2004	407	JMR13	Melaleuca	viminea		A		8.9	1.5	N	7	7	5
SPS203	1/12/2004	408	JMR13	Melaleuca	viminea		A		8.8	1.2	S	5	5	4
SPS203	1/12/2004	409	JMR13	Melaleuca	viminea		A		9.5	1.2	S	5	5	4
SPS203	1/12/2004	410	JMR13	Melaleuca	viminea		A		10.7	3.6	N	7	7	5
SPS203	1/12/2004	411	JMR22	Melaleuca	thyoides		A		12	4.7	S	7	7	5
SPS203	1/12/2004	412	JMR13	Melaleuca	viminea		A		13.5	3	S	1	1	5
SPS203	1/12/2004	413	JMR13	Melaleuca	viminea		A	Y	14.3	0.8	N	7	7	5
SPS203	1/12/2004	414	JMR13	Melaleuca	viminea		SA		13.4	2.8	N	7	5	4
SPS203	1/12/2004	415	JMR13	Melaleuca	viminea		SA		14.2	3	N	7	7	5
SPS203	1/12/2004	416	JMR13	Melaleuca	viminea		A		16.6	2	S	3	3	3
SPS203	1/12/2004	417	none	Melaleuca	uncinata complex		SA		16.1	0.2	N	9	9	5
SPS203	1/12/2004	418	JMR13	Melaleuca	viminea		A		16.9	1.8	S	3	3	4
SPS203	1/12/2004	419	JMR13	Melaleuca	viminea		SA		16.9	1.5	N	5	7	5
SPS203	1/12/2004	420	JMR13	Melaleuca	viminea		SA		17.4	0		5	5	4
SPS203	1/12/2004	421	JMR13	Melaleuca	viminea		A		18.9	1.5	N	5	5	4
SPS203	1/12/2004	422	JMR13	Melaleuca	viminea		A		19.6	1	S	5	7	3
SPS203	1/12/2004	423	JMR3	Melaleuca	hamulosa		A	Y	19.9	2.3	N	9	9	5
SPS203	1/12/2004	424	JMR13	Melaleuca	viminea		A		21.5	0.5	N	5	5	4
SPS203	1/12/2004	425	JMR13	Melaleuca	viminea		SA		21.8	0.4	N	1	1	3
SPS203	1/12/2004	426	JMR13	Melaleuca	viminea		A		22.5	1.75	N	1	1	4
SPS203	1/12/2004	427	JMR13	Melaleuca	viminea		A		22.9	1.1	N	5	5	4
SPS203	1/12/2004	428	JMR27	Melaleuca	stereophloia		A	Y	25.1	0.75	N	7	7	5
SPS203	1/12/2004	429	JMR13	Melaleuca	viminea		A		24.5	1.5	S	5	5	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
SPS203	1/12/2004	430	none	Melaleuca	uncinata complex		A		25.6	1.25	N	9	9	5
SPS203	1/12/2004	431	JMR3	Melaleuca	hamulosa		A		29	0		9	9	5
SPS203	1/12/2004	432	JMR27	Melaleuca	stereophloia		A		28.2	3.7	S	9	9	5
SPS203	1/12/2004	433	JMR27	Melaleuca	stereophloia		A		31.2	3.4	S	9	9	5
SPS203	1/12/2004	not tagged	JMR13	Melaleuca	viminea		SA		24.8	0.4	N	7	7	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		19.8	0.15	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		19.9	0.5	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		A		21.1	0.5	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		21.3	0.25	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		21.7	0.7	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		22.5	0.7	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		23	0.5	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		23.1	0.2	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		24.6	1.25	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		24.8	0.5	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		24.8	0.8	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		25.6	0.3	S	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		25.6	1.1	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		25.7	0.6	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		26	1.3	N	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		26.7	0		9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		26.6	2	S	9	9	5
SPS203	1/12/2004	not tagged	JMR3	Melaleuca	hamulosa		SA		27.6	2.5	S	9	9	5
SPS203	1/12/2004	not tagged	none	Melaleuca	uncinata complex		R		25.6	0.75	N	5	5	5
SPS203	1/12/2004	not tagged	none	Melaleuca	uncinata complex		R		26	1.1	N	5	5	5
SPS203	1/12/2004	not tagged	none	Melaleuca	uncinata complex		R		26	1.1	N	7	7	5
W001	23/11/2004	not tagged	JMR53	Melaleuca	uncinata complex		A		3.1	3.5	S	3	3	5
W001	23/11/2004	1	JMR53	Melaleuca	atroviridis		SA		6.5	2.8	N	7	7	5
W001	23/11/2004	not tagged	JMR53	Melaleuca	uncinata complex		J		16.6			9	9	5
W001	23/11/2004	2	JMR53	Melaleuca	atroviridis		A		33	7.1	N	7	7	5
W001	23/11/2004	3	JMR53	Melaleuca	atroviridis		SA		33.8	2.2	S	7	7	5
W001	23/11/2004	4	JMR4	Melaleuca	eleuterostachya		A	y	41	8.6	N	9	9	5
W001	23/11/2004	7	JMR39	Eucalyptus	loxophleba		A		54.2	8.8	S	5	5	4
W001	23/11/2004	5	JMR39	Eucalyptus	loxophleba		A	y	54.5	6.7	N	5	5	4
W001	23/11/2004	6	JMR39	Eucalyptus	loxophleba		A		55.3	11	N	5	5	4
W001	23/11/2004	8	JMR39	Eucalyptus	loxophleba		A		57.6	11.2	S	5	5	4

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W001	23/11/2004	9	JMR39	Eucalyptus	loxophleba		A		64.5	4.4	N	5	5	5
W001	23/11/2004	10	JMR39	Eucalyptus	loxophleba		A		71.5	0.65	S	5	5	5
W001	23/11/2004	11	JMR39	Eucalyptus	loxophleba		A		76.5	3.1	N	3	5	3
W001	23/11/2004	12	JMR39	Eucalyptus	loxophleba		A		79.5	1.2	S	5	5	5
W001	23/11/2004	13	JMR39	Eucalyptus	loxophleba		A		93	0.5	S	5	3	5
W002	23/11/2004	14	JMR35	Acacia	sp.		A	y	8.7	5.3	W	5	3	5
W002	23/11/2004	15	JMR35	Acacia	sp.		A		11.9	4.8	E	1	1	5
W002	23/11/2004	16	JMR9	Melaleuca	lateriflora	subsp. acutifolia	A	y	16.6	5.8	W	7	7	5
W002	23/11/2004	17	JMR52	Acacia	acuminata		A		18	3.5	e	7	7	5
W002	23/11/2004	18	none	Melaleuca	uncinata complex		A		17.5	4.6	E	7	5	5
W002	23/11/2004	19	JMR35	Acacia	sp.		A		19	4	W	5	3	1
W002	23/11/2004	20	JMR52	Acacia	acuminata		A	Y	21.3	3	E	5	5	5
W002	23/11/2004	21	JMR24	Melaleuca	stereophloia		A	Y	23.7	0	E	7	7	5
W002	23/11/2004	22	JMR9	Melaleuca	lateriflora	subsp. acutifolia	A		29.9	1.5	E	7	5	5
W002	23/11/2004	23	none	Melaleuca	uncinata complex		A		35.9	0.3	W	3	3	5
W002	23/11/2004	24	none	Melaleuca	uncinata complex		A		39.5	0		5	5	5
W002	23/11/2004	25	none	Melaleuca	uncinata complex		A		40.6	1.2	W	5	5	5
W002	23/11/2004	26	none	Melaleuca	uncinata complex		A		41.7	1.6	W	5	5	5
W002	23/11/2004	27	none	Melaleuca	uncinata complex		A		43	1.5	E	5	5	5
W002	23/11/2004	28	none	Melaleuca	uncinata complex		A		44.5	1.1	W	5	5	5
W002	23/11/2004	29	none	Melaleuca	uncinata complex		A		47.6	1.1	W	5	5	4
W002	23/11/2004	30	none	Melaleuca	uncinata		A		48.5	1	E	5	5	4

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
					complex									
W002	23/11/2004	31	none	Melaleuca	uncinata complex		SA		50.6	0.3	E	5	5	5
W002	23/11/2004	32	none	Melaleuca	uncinata complex		A		50.5	0.9	W	3	3	4
W002	23/11/2004	33	none	Melaleuca	uncinata complex		A		54.4	0		5	5	4
W002	23/11/2004	34	none	Melaleuca	uncinata complex		A		55.6	1.3	E	5	3	4
W002	23/11/2004	35	none	Melaleuca	uncinata complex		A		58.1	1.6	W	5	5	4
W002	23/11/2004	36	none	Melaleuca	uncinata complex		A		69.5	2.25	W	5	5	4
W002	23/11/2004	37	none	Eucalyptus	loxophleba		A		79	4.8	W	5	3	3
W002	23/11/2004	38	none	Eucalyptus	loxophleba		A	?	82	11.5	E	1	1	1
W002	23/11/2004	39	none	Eucalyptus	loxophleba		SA		88	9.5	E	5	5	4
W002	23/11/2004	40	none	Eucalyptus	loxophleba		A		91.8	1.4	W	3	3	4
W002	23/11/2004	41	none	Eucalyptus	loxophleba		A		94.8	6.2	E	5	3	3
W002	23/11/2004	42	none	Eucalyptus	loxophleba		SA		100	5	E	3	3	3
W002	23/11/2004	43	none	Eucalyptus	loxophleba		A		98.3	7.5	W	5	3	4
W002	23/11/2004	44	none	Eucalyptus	loxophleba		SA		105.4	7.4	W	3	3	5
W002	23/11/2004	45	none	Eucalyptus	loxophleba		A		105	8.8	W	3	3	5
W002	23/11/2004	46	none	Eucalyptus	loxophleba		A		112	7.4	W	5	3	4
W002	23/11/2004	47	none	Eucalyptus	loxophleba		SA		110	7.5	E	5	5	3
W002	23/11/2004	not tagged	none	Exocarpus	aphylla		A		79.5	2	W	Not recorded	Not recorded	Not recorded
W004	29/11/2004	248	none	Melaleuca	uncinata complex		A		17.8	1.6	S	5	5	5
W004	29/11/2004	249	none	Melaleuca	uncinata		SA		17.8	1.25	S	3	3	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
					complex									
W004	29/11/2004	250	none	Melaleuca	uncinata complex		A		19.7	1.25	N	5	5	5
W004	29/11/2004	251	none	Melaleuca	uncinata complex		SA		18.6	1.5	S	3	3	5
W004	29/11/2004	252	none	Melaleuca	uncinata complex		A		20	1.5	S	3	3	5
W004	29/11/2004	253	none	Melaleuca	uncinata complex		A		20.4	1.75	N	3	3	5
W004	29/11/2004	254	none	Melaleuca	uncinata complex		A		21.9	1.1	N	7	7	5
W004	29/11/2004	255	none	Melaleuca	uncinata complex		A		25.9	0		5	5	5
W004	29/11/2004	256	none	Melaleuca	uncinata complex		A		28.4	2.75	N	5	5	5
W004	29/11/2004	257	none	Melaleuca	uncinata complex		A		33	0.75	N	7	7	5
W004	29/11/2004	258	none	Melaleuca	uncinata complex		A		33.1	0.2	S	7	7	5
W004	29/11/2004	259	none	Melaleuca	uncinata complex		A		?			Not recorded	Not recorded	Not recorded
W004	29/11/2004	260	none	Melaleuca	uncinata complex		A		33.5	0		7	7	5
W004	29/11/2004	261	none	Melaleuca	uncinata complex		A		33.6	1.8	N	7	7	5
W004	29/11/2004	262	none	Melaleuca	uncinata complex		A		34.2	1.5	N	7	7	5
W004	29/11/2004	263	none	Melaleuca	uncinata complex		A		34.7	0.75	S	7	7	5
W004	29/11/2004	264	none	Melaleuca	uncinata		A		42.3	1.9	N	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
					complex									
W004	29/11/2004	265	none	Melaleuca	uncinata complex		A		43.2	1.8	S	5	5	5
W004	29/11/2004	266	none	Melaleuca	uncinata complex		A		44	1.7	S	3	3	5
W004	29/11/2004	267	none	Melaleuca	uncinata complex		A		44.7	1.9	s	1	1	5
W004	29/11/2004	268	none	Melaleuca	uncinata complex		SA		46.8	0.75	s	3	3	5
W004	29/11/2004	269	JMR21	Melaleuca	thyoides		A	Y	54.8	0.2	S	7	7	5
W004	29/11/2004	270	JMR21	Melaleuca	thyoides		A		58.5	1	S	7	7	5
W004	29/11/2004	271	JMR21	Melaleuca	thyoides		A		56.5	1.1	N	7	7	5
W004	29/11/2004	272	JMR21	Melaleuca	thyoides		A		59	0		3	3	5
W004	29/11/2004	273	JMR21	Melaleuca	thyoides		SA		66.3	1.3	S	3	3	5
W004	29/11/2004	274	JMR21	Melaleuca	thyoides		SA		66.8	0.6	N	1	1	5
W004	29/11/2004	275	JMR21	Melaleuca	thyoides		SA		67.7	1.5	N	3	3	5
W004	29/11/2004	276	JMR21	Melaleuca	thyoides		SA		68.6	1	N	1	1	5
W004	29/11/2004	277	JMR21	Melaleuca	thyoides		SA		69.7	0.85	S	3	3	5
W004	29/11/2004	278	JMR21	Melaleuca	thyoides		SA		70.6	0.35	N	9	9	5
W004	29/11/2004	279	JMR21	Melaleuca	thyoides		SA		70.3	0.35	S	3	3	5
W004	29/11/2004	280	JMR21	Melaleuca	thyoides		SA		70.9	0.5	S	7	7	5
W004	29/11/2004	281	JMR21	Melaleuca	thyoides		SA		70.7	1	S	5	5	5
W004	29/11/2004	282	JMR21	Melaleuca	thyoides		SA		71.4	0.85	S	5	5	5
W004	29/11/2004	283	JMR21	Melaleuca	thyoides		SA		71.7	0.35	N	9	9	5
W004	29/11/2004	284	JMR21	Melaleuca	thyoides		SA		72	0.5	S	9	9	5
W004	29/11/2004	285	JMR21	Melaleuca	thyoides		SA		72.5	0.25	N	9	9	5
W004	29/11/2004	286	JMR21	Melaleuca	thyoides		SA		73	0.35	S	9	9	5
W004	29/11/2004	287	JMR21	Melaleuca	thyoides		SA		73.5	0.5	N	9	9	5
W004	29/11/2004	288	JMR21	Melaleuca	thyoides		SA		75	0.25	N	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W004	29/11/2004	289	JMR21	Melaleuca	thyoides		SA		75	0.75	S	9	9	5
W004	29/11/2004	290	none	Melaleuca	uncinata complex		SA		84	0.25	N	1	1	5
W004	29/11/2004	291	none	Melaleuca	uncinata complex		SA		83.7	1.75	S	1	1	5
W004	29/11/2004	292	none	Melaleuca	uncinata complex		SA		85	0		1	1	5
W004	29/11/2004	293	none	Melaleuca	uncinata complex		SA		85.3	1.1	S	1	1	5
W004	29/11/2004	294	none	Melaleuca	uncinata complex		SA		85.9	1.5	S	5	5	5
W004	29/11/2004	295	none	Melaleuca	uncinata complex		SA		86.7	1.75	S	5	5	5
W004	29/11/2004	296	none	Melaleuca	uncinata complex		SA		86.7	1	N	5	5	5
W004	29/11/2004	297	none	Melaleuca	uncinata complex		SA		86.4	2.4	N	3	3	5
W004	29/11/2004	298	none	Melaleuca	uncinata complex		SA		87.5	2.5	N	5	5	5
W004	29/11/2004	299	none	Melaleuca	uncinata complex		SA		88.4	2	N	3	3	5
W004	29/11/2004	300	none	Melaleuca	uncinata complex		SA		89.3	1	N	7	7	5
W004	29/11/2004	301	none	Melaleuca	uncinata complex		SA		87.7	1.5	S	5	5	5
W004	29/11/2004	302	none	Melaleuca	uncinata complex		SA		88.8	0.5	S	7	7	5
W004	29/11/2004	303	none	Melaleuca	uncinata complex		SA		89	0.75	S	5	5	5
W004	29/11/2004	304	none	Melaleuca	uncinata complex		SA		90.8	0		7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W004	29/11/2004	305	none	Melaleuca	uncinata complex		SA		90.6	0.75	S	7	7	5
W004	29/11/2004	306	none	Melaleuca	uncinata complex		SA		92.1	0.85	S	7	7	5
W004	29/11/2004	307	none	Melaleuca	uncinata complex		SA		93.9	1.25	S	9	9	5
W004	29/11/2004	308	none	Melaleuca	uncinata complex		SA		94.4	0		7	7	5
W004	29/11/2004	309	none	Melaleuca	uncinata complex		A		95.3	1.5	S	9	9	5
W004	29/11/2004	310	JMR26	Melaleuca	stereophloia		A	Y	97.3	0		5	5	5
W004	29/11/2004	311	JMR29	Melaleuca	sp.		A		99	2.5	N	5	5	5
W004	29/11/2004	312	JMR29	Melaleuca	sp.		A		99.3	1.75	N	5	5	5
W004	29/11/2004	313	JMR29	Melaleuca	sp.		A		100	1.5	N	9	9	5
W004	29/11/2004	314	JMR29	Melaleuca	sp.		A		100	1.7	N	3	3	5
W004	29/11/2004	not tagged	none	Melaleuca	uncinata complex		SA		81.2	1.25	N	1	1	5
W006	30/11/2004	352	JMR32	Melaleuca	sp.		SA		14.1	1	W	1	1	4
W006	30/11/2004	353	JMR32	Melaleuca	sp.		A		14.6	0.5	E	3	3	5
W006	30/11/2004	354	JMR32	Melaleuca	sp.		SA		17.4	1.5	E	3	3	5
W006	30/11/2004	355	JMR32	Melaleuca	sp.		SA		17	1.75	W	1	1	4
W006	30/11/2004	356	JMR32	Melaleuca	sp.		SA		18.8	0.3	E	5	5	4
W006	30/11/2004	357	JMR32	Melaleuca	sp.		SA		19.3	0		5	5	4
W006	30/11/2004	358	JMR32	Melaleuca	sp.		SA		19.9	1.25	E	5	5	4
W006	30/11/2004	359	JMR32	Melaleuca	sp.		A		21.3	1	W	7	7	5
W006	30/11/2004	360	JMR32	Melaleuca	sp.		A		22.3	1	W	7	7	5
W006	30/11/2004	361	JMR32	Melaleuca	sp.		A		24	1.4	W	5	5	5
W006	30/11/2004	362	JMR32	Melaleuca	sp.		SA		23	0.55	W	5	5	4
W006	30/11/2004	363	JMR32	Melaleuca	sp.		SA		26.2	1	W	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W006	30/11/2004	364	JMR32	Melaleuca	sp.		SA		26.6	0.85	W	7	7	5
W006	30/11/2004	365	JMR32	Melaleuca	sp.		SA		27.9	0.35	W	5	5	5
W006	30/11/2004	366	JMR32	Melaleuca	sp.		SA		31.1	2	E	5	5	4
W006	30/11/2004	367	JMR32	Melaleuca	sp.		A		34.7	2	E	3	3	4
W006	30/11/2004	368	JMR32	Melaleuca	sp.		A		36.1	0.2	E	5	5	4
W006	30/11/2004	369	JMR32	Melaleuca	sp.		SA		36.4	0.2	W	5	5	4
W006	30/11/2004	370	JMR32	Melaleuca	sp.		SA		36.4	0.2	E	5	5	4
W006	30/11/2004	371	JMR32	Melaleuca	sp.		A		38.4	1.5	W	9	9	5
W006	30/11/2004	372	JMR32	Melaleuca	sp.		A		38	1.25	W	7	7	5
W006	30/11/2004	373	JMR32	Melaleuca	sp.		A		43.9	0.75	E	9	9	5
W006	30/11/2004	374	JMR32	Melaleuca	sp.		A		47.2	1.25	E	9	9	5
W006	30/11/2004	375	JMR30	Melaleuca	sp.		A		48.8	2	E	1	1	5
W006	30/11/2004	376	JMR30	Melaleuca	sp.		A		49.3	2.6	E	5	5	5
W006	30/11/2004	377	JMR30	Melaleuca	sp.		A		50	1.8	E	5	5	5
W006	30/11/2004	378	JMR32	Melaleuca	sp.		SA		50.6	1.1	W	5	5	4
W006	30/11/2004	379	JMR30	Melaleuca	sp.		A		52.1	0.6	E	3	3	5
W006	30/11/2004	380	JMR30	Melaleuca	sp.		A		52.5	0.5	E	5	5	5
W006	30/11/2004	381	JMR30	Melaleuca	sp.		A		58.4	0.8	E	5	5	5
W006	30/11/2004	not tagged	JMR30	Melaleuca	sp.		R		57.6	1.7	W	5	5	5
W006	30/11/2004	not tagged	JMR30	Melaleuca	sp.		R		56.1	0.2	W	Not recorded	Not recorded	Not recorded
W007	10/12/2004	775	none	Eucalyptus	loxophleba		A		16.7	6.8	N	5	5	4
W007	10/12/2004	776	none	Eucalyptus	loxophleba		A		23	7	S	5	5	4
W007	10/12/2004	777	none	Eucalyptus	loxophleba		A		27.8	12.5	S	5	5	4
W007	10/12/2004	778	none	Eucalyptus	loxophleba		A		27.3	18.8	S	5	5	4
W007	10/12/2004	779	none	Eucalyptus	loxophleba		A		33.6	8	N	3	3	4
W007	10/12/2004	780	none	Eucalyptus	loxophleba		A		37.1	25	N	3	3	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W007	10/12/2004	781	none	Eucalyptus	loxophleba		A		42.3	8	S	7	5	4
W007	10/12/2004	782	none	Eucalyptus	loxophleba		A		42.7	13	N	3	3	4
W007	10/12/2004	783	none	Eucalyptus	loxophleba		A		45.9	14	N	5	5	4
W007	10/12/2004	784	none	Eucalyptus	loxophleba		A		50.7	16	N	5	5	4
W007	10/12/2004	785	none	Eucalyptus	loxophleba		A		52.6	8	S	3	3	2
W007	10/12/2004	786	none	Eucalyptus	loxophleba		A		52.9	16.3	N	1	1	2
W007	10/12/2004	787	none	Eucalyptus	loxophleba		A		54.3	19.3	N	3	3	4
W007	10/12/2004	788	none	Eucalyptus	loxophleba		A		57.3	21	N	3	3	3
W007	10/12/2004	789	none	Eucalyptus	loxophleba		A		73.8	15.5	N	5	5	4
W007	10/12/2004	790	none	Eucalyptus	loxophleba		A		68.7	12.6	S	1	1	3
W007	10/12/2004	791	none	Eucalyptus	loxophleba		A		76.4	5	S	1	1	2
W007	10/12/2004	792	none	Eucalyptus	loxophleba		A		94	8.8	N	3	3	2
W007	10/12/2004	793	none	Eucalyptus	loxophleba		A		97.8	20	N	3	3	3
W007	10/12/2004	794	none	Eucalyptus	loxophleba		A		109.2	0		3	3	3
W007	10/12/2004	795	none	Eucalyptus	loxophleba		A		97.8	16	S	3	3	2
W007	10/12/2004	796	none	Eucalyptus	loxophleba		A		97.8	19	S	5	5	3
W007	10/12/2004	797												
W007	10/12/2004	798												
W007	10/12/2004	799	none	Eucalyptus	loxophleba		A		114	20	S	1	1	2
W007	10/12/2004	800	none	Eucalyptus	loxophleba		A		119	4	N	3	5	3
W007	10/12/2004	801	none	Eucalyptus	loxophleba		A		120	13.3	S	7	5	4
W007	10/12/2004	802	none	Eucalyptus	loxophleba		A		119.5	6	N	3	3	2
W007	10/12/2004	803	none	Eucalyptus	loxophleba		A		129.5	4	N	3	3	2
W007	10/12/2004	804	none	Eucalyptus	loxophleba		A		131.7	3.3	S	5	5	3
W007	10/12/2004	805	none	Eucalyptus	loxophleba		A		139.7	5.8	N	1	1	2
W007	10/12/2004	806	none	Eucalyptus	loxophleba		A		142.8	18.3	S	1	1	1
W007	10/12/2004	807	none	Eucalyptus	loxophleba		A		153.7	11	N	3	3	3
W007	10/12/2004	808	none	Eucalyptus	loxophleba		A		155.6	10	N	3	3	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W007	10/12/2004	809	none	Eucalyptus	loxophleba		A		159.3	16	N	1	1	1
W007	10/12/2004	810	none	Eucalyptus	loxophleba		A		158.5	12	S	1	1	2
W008	6/12/2004	483	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		13.9	5	E	3	3	5
W008	6/12/2004	484	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		14.4	6	W	5	5	5
W008	6/12/2004	485	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		15.6	1	W	3	3	5
W008	6/12/2004	486	JMR10	Melaleuca	lateriflora	subsp. acutifolia	SA		17.8	5	W	3	3	5
W008	6/12/2004	487	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		17.2	1.5	W	5	5	5
W008	6/12/2004	488	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		18.2	1.6	W	5	5	5
W008	6/12/2004	489	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		19.1	7.2	E	7	7	5
W008	6/12/2004	490	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		23	7.5	E	7	7	5
W008	6/12/2004	491	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		23.2	0.6	E	5	5	5
W008	6/12/2004	492	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		24.2	2	W	7	5	5
W008	6/12/2004	493	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		26.1	4	W	5	5	5
W008	6/12/2004	494	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		26.8	1.5	E	7	7	5
W008	6/12/2004	495	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		27	4.5	W	7	7	5
W008	6/12/2004	496	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		30.2	1.8	W	7	7	5
W008	6/12/2004	497	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		38.1	1.1	E	3	3	5
W008	6/12/2004	498	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		39	4.2	E	5	5	5
W008	6/12/2004	499	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		41	4	e	5	5	5
W008	6/12/2004	500	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		42.9	3.2	W	5	5	5
W008	6/12/2004	501	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		41.5	1.8	E	5	5	5
W008	6/12/2004	502	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		46.2	1.5	E	5	5	5
W008	6/12/2004	503	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		68.7	2.2	E	5	5	5
W008	6/12/2004	504	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		70	5.9	E	3	3	5
W008	6/12/2004	505	JMR10	Melaleuca	lateriflora	subsp. acutifolia	SA		76.8	8.3	E	3	3	5
W008	6/12/2004	506	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		80	8.3	E	5	5	5
W008	6/12/2004	507	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		85.3	4.1	E	3	3	5
W008	6/12/2004	508	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		86.4	6	E	3	3	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W008	6/12/2004	509	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		88.6	0.2	W	1	1	5
W008	6/12/2004	510	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		89	5.5	W	3	3	5
W008	6/12/2004	511	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		90	3.5	W	1	1	5
W008	6/12/2004	512	JMR10	Melaleuca	lateriflora	subsp. acutifolia	J		96	5.1	W	9	9	5
W008	6/12/2004	513	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		97.1	5.5	W	3	3	5
W008	6/12/2004	514	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		101.8	3.5	W	5	5	5
W008	6/12/2004	515	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		102.8	5.5	E	3	3	5
W008	6/12/2004	516	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		104.1	2.6	W	3	3	5
W008	6/12/2004	517	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		108.3	0.1	W	1	1	5
W008	6/12/2004	518	JMR10	Melaleuca	lateriflora	subsp. acutifolia	MA		117.3	9.8	W	1	1	5
W008	6/12/2004	519	JMR10	Melaleuca	lateriflora	subsp. acutifolia	J		124.6	6.3	W	9	9	5
W008	6/12/2004	520	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		34.9	1.3	W	3	5	5
W008	6/12/2004	521	JMR10	Melaleuca	lateriflora	subsp. acutifolia	A		26.3	1.5	E	7	7	5
W009	7/12/2004	522	JMR1	Melaleuca	viminea		A	y	2.3	1	W	9	9	5
W009	7/12/2004	523	JMR1	Melaleuca	viminea		A		4.2	2	W	3	3	5
W009	7/12/2004	524	JMR1	Melaleuca	viminea		A		6	1.7	W	5	5	5
W009	7/12/2004	525	JMR1	Melaleuca	viminea		A		8.5	2	E	5	5	5
W009	7/12/2004	526	JMR1	Melaleuca	viminea		MA		8.5	2	E	5	5	5
W009	7/12/2004	527	JMR1	Melaleuca	viminea		MA		9.5	5.3	E	7	7	5
W009	7/12/2004	528	JMR1	Melaleuca	viminea		MA		11.5	0.6	W	5	5	5
W009	7/12/2004	529	JMR1	Melaleuca	viminea		MA		13.7	0.5	E	5	5	5
W009	7/12/2004	530	JMR1	Melaleuca	viminea		MA		14.4	0.75	W	7	7	5
W009	7/12/2004	531	JMR1	Melaleuca	viminea		MA		15.7	2.2	E	5	5	5
W009	7/12/2004	532	JMR1	Melaleuca	viminea		MA		14.3	1.6	E	3	3	5
W009	7/12/2004	533	JMR1	Melaleuca	viminea		MA		12.6	2	W	7	7	5
W010	7/12/2004	not tagged	none	Actinostrobus	sp.				24.3	11.3	W	9	9	5
W010	7/12/2004	not	none	Actinostrobu	sp.				25.6	8.3	W	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
		tagged		s										
W010	7/12/2004	not tagged	none	Actinostrobus	sp.				27	7.3	W	9	9	5
W010	7/12/2004	not tagged	none	Allocasuarina	sp.				9.5	5.5	E	9	9	5
W010	7/12/2004	not tagged	none	Allocasuarina	sp.				27.7	6.3	W	9	9	5
W011	25/11/2004	150	JMR28	Melaleuca	sp.		A		4.9	1	E	1	1	5
W011	25/11/2004	151	JMR28	Melaleuca	sp.		SA		4.4	4.2	W	1	1	5
W011	25/11/2004	152	JMR28	Melaleuca	sp.		A		6	3.3	W	5	3	5
W011	25/11/2004	153	JMR28	Melaleuca	sp.		A		7.3	2	W	5	5	5
W011	25/11/2004	154	JMR28	Melaleuca	sp.		A		7.6	1.75	W	5	5	5
W011	25/11/2004	155	JMR28	Melaleuca	sp.		SA		8.8	0		5	3	5
W011	25/11/2004	156	JMR28	Melaleuca	sp.		A		10	2	W	5	5	5
W011	25/11/2004	157	JMR28	Melaleuca	sp.		A		9.7	2	W	7	7	5
W011	25/11/2004	158	JMR28	Melaleuca	sp.		A		9.8	2.1	W	7	7	5
W011	25/11/2004	159	JMR28	Melaleuca	sp.		SA		9.7	4	W	3	3	5
W011	25/11/2004	160	JMR28	Melaleuca	sp.		A		11.5	1.75	W	5	5	5
W011	25/11/2004	161	JMR28	Melaleuca	sp.		A		11.9	4.7	E	1	3	5
W011	25/11/2004	162	JMR28	Melaleuca	sp.		A		12.5	4.6	E	3	3	5
W011	25/11/2004	163	JMR28	Melaleuca	sp.		A		13.5	3.3	E	7	5	5
W011	25/11/2004	164	JMR28	Melaleuca	sp.		J		14.8	1.5	W	5	3	5
W011	25/11/2004	165	JMR28	Melaleuca	sp.		J		15.4	2.1	W	5	3	5
W011	25/11/2004	166	none	Casuarina	obesa		A		15.8	3.8	E	1	1	4
W011	25/11/2004	167	JMR28	Melaleuca	sp.		A		17.1	4.4	W	5	3	5
W011	25/11/2004	168	JMR28	Melaleuca	sp.		SA		22.6	2.8	E	5	5	5
W011	25/11/2004	169	JMR28	Melaleuca	sp.		A		23.6	3.5	W	7	5	5
W011	25/11/2004	170	JMR28	Melaleuca	sp.		J		24.5	1.8	E	5	7	5
W011	25/11/2004	171	JMR28	Melaleuca	sp.		SA		25.5	2	W	7	3	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W011	25/11/2004	172	JMR28	Melaleuca	sp.		A		26.6	1.5	W	7	5	4
W011	25/11/2004	173	JMR28	Melaleuca	sp.		A		26.4	3.1	E	5	3	5
W011	25/11/2004	174	JMR28	Melaleuca	sp.		A		27.4	2.5	E	5	3	5
W011	25/11/2004	175	JMR28	Melaleuca	sp.		A		29	1	W	7	7	5
W011	25/11/2004	176	JMR28	Melaleuca	sp.		A		30.4	3	E	3	3	4
W011	25/11/2004	177	JMR28	Melaleuca	sp.		J		31.4	1.8	W	3	3	5
W011	25/11/2004	178	JMR28	Melaleuca	sp.		SA		33.9	2.4	E	5	5	5
W011	25/11/2004	179	JMR28	Melaleuca	sp.		J		34.3	4.2	E	7	5	5
W011	25/11/2004	180	JMR28	Melaleuca	sp.		A		38.9	0.25	W	9	9	5
W011	25/11/2004	181	JMR28	Melaleuca	sp.		J		37.9	2.1	E	7	5	5
W011	25/11/2004	182	JMR28	Melaleuca	sp.		J		37.3	2.7	W	9	7	5
W011	25/11/2004	183	JMR28	Melaleuca	sp.		A		40	3.2	W	7	7	5
W011	25/11/2004	184	JMR28	Melaleuca	sp.		SA		41.8	1.3	W	7	7	5
W011	25/11/2004	185	JMR28	Melaleuca	sp.		J		40.5	2.5	E	7	9	5
W011	25/11/2004	186	JMR28	Melaleuca	sp.		SA		42	0.1	W	9	7	5
W011	25/11/2004	187	JMR28	Melaleuca	sp.		J		41.9	1.9	E	7	9	5
W011	25/11/2004	188	JMR28	Melaleuca	sp.		A		42.3	0.8	E	9	9	5
W011	25/11/2004	189	JMR28	Melaleuca	sp.		A		42.4	0.8	E	9	9	5
W011	25/11/2004	190	JMR28	Melaleuca	sp.		A		43.7	1.5	E	9	7	5
W011	25/11/2004	191	JMR28	Melaleuca	sp.		A		43.1	2.9	W	9	9	5
W011	25/11/2004	192	JMR28	Melaleuca	sp.		A	Y	44.9	4	W	9	9	5
W011	25/11/2004	193	none	Casuarina	obesa		J		46	2.9	W	9	9	5
W011	25/11/2004	194	JMR28	Melaleuca	sp.		A		45.2	2.2	e	9	9	5
W011	25/11/2004	195	JMR28	Melaleuca	sp.		A		45.9	1.8	E	9	9	5
W011	25/11/2004	196	JMR28	Melaleuca	sp.		SA		47.6	0.3	W	9	9	5
W011	25/11/2004	197	JMR28	Melaleuca	sp.		A		47.3	2.4	E	9	9	5
W011	25/11/2004	198	JMR28	Melaleuca	sp.		A		25.4	2.2	E	5	3	5
W011	25/11/2004	199	JMR28	Melaleuca	sp.		A		25.8	2.2	E	5	3	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W015	1/12/2004	92	JMR36	Eucalyptus	camaldulensis		A		1.5	23.1	W	1	1	1
W015	1/12/2004	93	JMR36	Eucalyptus	camaldulensis		A		3.8	28.6	W	1	1	1
W015	1/12/2004	94	JMR36	Eucalyptus	camaldulensis		J		10	28.6	W	3	3	3
W015	1/12/2004	95	JMR36	Eucalyptus	camaldulensis		MA		19.5	32.8	W	1	1	1
W015	1/12/2004	96	JMR36	Eucalyptus	camaldulensis		J		23.2	32.6	W	3	3	3
W015	1/12/2004	97	JMR36	Eucalyptus	camaldulensis		J		25.5	34.5	W	5	5	4
W015	1/12/2004	98	JMR36	Eucalyptus	camaldulensis		J		27.4	30.9	W	1	1	1
W015	1/12/2004	99	JMR36	Eucalyptus	camaldulensis		A		29.8	34.5	W	3	3	3
W015	1/12/2004	100	JMR36	Eucalyptus	camaldulensis		J		31.4	32.5	W	3	3	3
W015	1/12/2004	101	JMR36	Eucalyptus	camaldulensis		MA		34.7	32.5	W	1	1	1
W015	1/12/2004	102	JMR36	Eucalyptus	camaldulensis		J		39	33.7	W	3	3	3
W015	1/12/2004	103	JMR36	Eucalyptus	camaldulensis		J		40.7	33.2	W	3	3	3
W015	1/12/2004	104	JMR36	Eucalyptus	camaldulensis		A		43.7	33.2	W	3	5	3
W015	1/12/2004	105	JMR36	Eucalyptus	camaldulensis		A		44.6	29.2	W	5	5	4
W015	1/12/2004	106	JMR36	Eucalyptus	camaldulensis		A		46	29.2	W	1	1	1
W015	1/12/2004	107	JMR36	Eucalyptus	camaldulensis		A		46.3	30.2	W	3	3	3
W015	1/12/2004	108	JMR36	Eucalyptus	camaldulensis		MA		49.4	36.2	W	3	3	3
W015	1/12/2004	109	JMR36	Eucalyptus	camaldulensis		A		48.1	31.2	W	3	3	3
W015	1/12/2004	110	JMR36	Eucalyptus	camaldulensis		A		48.1	30.2	W	5	5	5
W015	1/12/2004	111	JMR36	Eucalyptus	camaldulensis		A		22.1	26.2	W	3	3	3
W015	1/12/2004	112	JMR36	Eucalyptus	camaldulensis		J		29.7	21	W	5	3	4
W015	1/12/2004	113	JMR36	Eucalyptus	camaldulensis		A		23.9	23.7	W	3	3	3
W015	1/12/2004	114	JMR36	Eucalyptus	camaldulensis		MA		21.8	19.9	W	3	3	3
W015	1/12/2004	115	JMR36	Eucalyptus	camaldulensis		A		23.8	21.9	W	3	3	1
W015	1/12/2004	116	JMR36	Eucalyptus	camaldulensis		A		24.7	21.9	W	3	3	3
W015	1/12/2004	117	JMR36	Eucalyptus	camaldulensis		A		24.9	19.6	W	3	3	3
W015	1/12/2004	118	JMR36	Eucalyptus	camaldulensis		A		39.9	24.8	W	3	3	3
W015	1/12/2004	119	JMR36	Eucalyptus	camaldulensis		A		38.6	23.8	W	3	3	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W015	1/12/2004	120	JMR36	Eucalyptus	camaldulensis		A		38.5	22.3	W	3	3	3
W015	1/12/2004	121	JMR36	Eucalyptus	camaldulensis		A		36.4	21.5	W	3	3	3
W015	1/12/2004	122	JMR36	Eucalyptus	camaldulensis		MA		36.4	19.5	W	5	5	3
W015	1/12/2004	123	JMR36	Eucalyptus	camaldulensis		A		39.6	17.8	W	3	3	3
W015	1/12/2004	124	JMR36	Eucalyptus	camaldulensis		A		37.5	17.8	W	5	3	3
W015	1/12/2004	125	JMR36	Eucalyptus	camaldulensis		A		37.5	15.8	W	5	3	3
W015	1/12/2004	126	JMR36	Eucalyptus	camaldulensis		A		37.3	14.1	W	3	3	3
W015	1/12/2004	127	JMR36	Eucalyptus	camaldulensis		A		35.7	6.1	W	3	3	3
W015	1/12/2004	128	JMR36	Eucalyptus	camaldulensis		J		45.9	14.8	W	3	5	5
W015	1/12/2004	129	JMR36	Eucalyptus	camaldulensis		J		47	14.8	W	5	5	4
W015	1/12/2004	130	JMR36	Eucalyptus	camaldulensis		J		46.2	15.3	W	5	5	5
W015	1/12/2004	131	JMR36	Eucalyptus	camaldulensis		J		46.3	16.3	W	5	5	4
W015	1/12/2004	132	JMR36	Eucalyptus	camaldulensis		J		48.7	18.3	W	5	5	5
W015	1/12/2004	133	JMR36	Eucalyptus	camaldulensis		A		17.3	10.7	W	3	3	3
W015	1/12/2004	134	JMR36	Eucalyptus	camaldulensis		MA		13.2	11.2	W	3	3	2
W015	1/12/2004	135	JMR36	Eucalyptus	camaldulensis		J		11.6	5.6	W	5	3	4
W015	1/12/2004	136	JMR36	Eucalyptus	camaldulensis		J		13.2	5.6	W	3	3	3
W015	1/12/2004	137	JMR36	Eucalyptus	camaldulensis		J		16.9	4.2	W	7	7	4
W015	1/12/2004	138	JMR36	Eucalyptus	camaldulensis		MA		11.6	5.6	E	3	3	2
W015	1/12/2004	139	JMR36	Eucalyptus	camaldulensis		A		28	9	E	5	3	3
W015	1/12/2004	140	JMR36	Eucalyptus	camaldulensis		J		30.3	6.2	E	1	1	2
W015	1/12/2004	141	JMR36	Eucalyptus	camaldulensis		MA		30.7	1.6	E	7	5	4
W015	1/12/2004	142	JMR36	Eucalyptus	camaldulensis		A		38.2	3.9	E	3	3	2
W015	1/12/2004	143	JMR36	Eucalyptus	camaldulensis		A		39.4	10.5	E	5	5	4
W015	1/12/2004	144	JMR36	Eucalyptus	camaldulensis		A		49	10.8	E	3	3	3
W015	1/12/2004	145	JMR36	Eucalyptus	camaldulensis		A		50.6	9.7	E	3	3	3
W015	1/12/2004	146	JMR36	Eucalyptus	camaldulensis		MA		63.9	8.6	E	1	3	1
W015	1/12/2004	147	JMR36	Eucalyptus	camaldulensis		A		68.1	8.4	E	7	7	4

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W015	1/12/2004	148	JMR36	Eucalyptus	camaldulensis		A		82.2	5.3	W	1	3	1
W015	1/12/2004	149	JMR36	Eucalyptus	camaldulensis		A		82.7	6.3	W	5	5	4
W015	1/12/2004	434	JMR36	Eucalyptus	camaldulensis		J		12.8	4.7	E	1	1	2
W015	1/12/2004	435	JMR36	Eucalyptus	camaldulensis		J		13.4	6.2	E	3	5	2
W015	1/12/2004	436	JMR36	Eucalyptus	camaldulensis		SA		38.9	11.7	E	3	1	1
W015	1/12/2004	437	JMR36	Eucalyptus	camaldulensis		SA		40.7	12	E	3	5	4
W015	1/12/2004	438	JMR36	Eucalyptus	camaldulensis		A		41	16.8	E	5	5	3
W015	1/12/2004	439	JMR36	Eucalyptus	camaldulensis		MA		41.5	14.9	E	7	7	5
W015	1/12/2004	440	JMR36	Eucalyptus	camaldulensis		A		40.3	25.4	E	3	3	3
W015	1/12/2004	441	JMR36	Eucalyptus	camaldulensis		A		45.1	22.4	E	5	3	4
W015	1/12/2004	442	JMR36	Eucalyptus	camaldulensis		A		45.7	22.1	E	3	3	3
W015	1/12/2004	443	JMR36	Eucalyptus	camaldulensis		A		44.7	17.1	E	3	3	2
W015	1/12/2004	444	JMR36	Eucalyptus	camaldulensis		A		44.2	16.4	E	3	3	2
W015	1/12/2004	445	JMR36	Eucalyptus	camaldulensis		SA		43.5	12.2	E	3	3	4
W015	1/12/2004	446	JMR36	Eucalyptus	camaldulensis		A		44.6	13.5	E	3	3	4
W015	1/12/2004	447	JMR36	Eucalyptus	camaldulensis		MA		51.8	14.4	E	5	3	4
W015	1/12/2004	448	JMR36	Eucalyptus	camaldulensis		A		53	19.1	E	3	3	3
W015	1/12/2004	449	JMR36	Eucalyptus	camaldulensis		MA		53.9	20.4	E	3	3	3
W015	1/12/2004	450	JMR36	Eucalyptus	camaldulensis		J		56.3	31.1	E	7	5	5
W015	1/12/2004	451	JMR36	Eucalyptus	camaldulensis		SA		57.9	32.4	E	5	5	4
W015	1/12/2004	452	JMR36	Eucalyptus	camaldulensis		MA		68.2	30.4	E	3	3	3
W015	1/12/2004	453	JMR36	Eucalyptus	camaldulensis		A		70.5	31.2	E	1	1	2
W015	1/12/2004	454	JMR36	Eucalyptus	camaldulensis		A		71	25.2	E	5	3	3
W015	1/12/2004	455	JMR36	Eucalyptus	camaldulensis		MA		72.2	22.3	E	3	3	2
W015	1/12/2004	456	JMR36	Eucalyptus	camaldulensis		J		79.7	16.9	E	7	5	5
W015	1/12/2004	457	JMR36	Eucalyptus	camaldulensis		R		79.7	16.7	E	7	7	5
W015	1/12/2004	458	JMR36	Eucalyptus	camaldulensis		R		79.7	16.4	E	7	7	5
W015	1/12/2004	459	JMR36	Eucalyptus	camaldulensis		J		79.7	16.1	E	7	7	4

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W015	1/12/2004	460	JMR36	Eucalyptus	camaldulensis		J		79.7	14.4	E	7	7	4
W015	1/12/2004	461	JMR36	Eucalyptus	camaldulensis		R		80.4	14.2	E	5	5	3
W015	1/12/2004	462	JMR36	Eucalyptus	camaldulensis		R		80.7	15	E	7	7	5
W015	1/12/2004	463	JMR36	Eucalyptus	camaldulensis		R		81.2	14.8	E	7	7	5
W015	1/12/2004	464	JMR36	Eucalyptus	camaldulensis		R		80.9	15.2	E	5	5	4
W015	1/12/2004	465	JMR36	Eucalyptus	camaldulensis		R		81	15.6	E	3	3	3
W015	1/12/2004	466	JMR36	Eucalyptus	camaldulensis		J		81.6	15.9	E	7	7	5
W015	1/12/2004	467	JMR36	Eucalyptus	camaldulensis		R		81.8	16	E	1	1	1
W015	1/12/2004	468	JMR36	Eucalyptus	camaldulensis		R		82	16.1	E	3	3	3
W015	1/12/2004	469	JMR36	Eucalyptus	camaldulensis		R		81.4	16.7	E	5	5	4
W015	1/12/2004	470	JMR36	Eucalyptus	camaldulensis		R		81.2	16.9	E	7	7	5
W015	1/12/2004	471	JMR36	Eucalyptus	camaldulensis		R		81.7	16.4	E	7	7	5
W015	1/12/2004	472	JMR36	Eucalyptus	camaldulensis		R		82.9	17.2	E	3	3	3
W015	1/12/2004	473	JMR36	Eucalyptus	camaldulensis		A		86.7	15.9	W	3	3	1
W015	1/12/2004	474	JMR36	Eucalyptus	camaldulensis		A		85.4	16.6	W	1	1	1
W015	1/12/2004	475	JMR36	Eucalyptus	camaldulensis		A		83.8	18.4	W	3	3	1
W015	1/12/2004	476	JMR36	Eucalyptus	camaldulensis		A		84.1	10.2	W	3	1	1
W015	1/12/2004	477	JMR36	Eucalyptus	camaldulensis		MA		82.5	14	W	1	1	1
W015	1/12/2004	478	JMR36	Eucalyptus	camaldulensis		A		81.5	17.3	W	5	5	2
W015	1/12/2004	479	JMR36	Eucalyptus	camaldulensis		MA		80	17.8	W	1	1	1
W015	1/12/2004	480	JMR36	Eucalyptus	camaldulensis		J		61.6	23.1	E	1	1	1
W015	1/12/2004	481	JMR36	Eucalyptus	camaldulensis		J		60	23.5	E	3	3	3
W015	1/12/2004	482	JMR36	Eucalyptus	camaldulensis		J		60	27.7	E	3	5	3
W017	24/11/2004	48	JMR48	Casuarina	obesa		SA		32	0.2	S	9	9	5
W017	24/11/2004	49	JMR48	Casuarina	obesa		A		30.7	6.3	S	9	9	5
W017	24/11/2004	50	JMR48	Casuarina	obesa		SA		61.4	2.4	N	7	7	5
W017	24/11/2004	51	JMR48	Casuarina	obesa		A		66.6	1.8	NOT REC	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
											ORDED			
W017	24/11/2004	52	JMR48	Casuarina	obesa		A		67.8	1.8	NOT REC ORDED	9	9	5
W017	24/11/2004	53	JMR48	Casuarina	obesa		A		68.2	2.8	NOT REC ORDED	9	9	5
W017	24/11/2004	54	JMR48	Casuarina	obesa		A		69.3	1.9	N	7	7	5
W017	24/11/2004	55	JMR48	Casuarina	obesa		A		77.2	0.5	S	9	9	5
W017	24/11/2004	56	JMR48	Casuarina	obesa		A		78.7	3.5	N	9	9	5
W017	24/11/2004	57	JMR48	Casuarina	obesa		A	Y	81	0.4	S	9	9	5
W017	24/11/2004	58	JMR48	Casuarina	obesa		A		81	1.1	S	9	9	5
W017	24/11/2004	59	JMR48	Casuarina	obesa		SA		81.2	2.2	N	9	9	5
W017	24/11/2004	60	JMR48	Casuarina	obesa		A		81.8	3.5	N	9	9	5
W017	24/11/2004	61	JMR48	Casuarina	obesa		A		82.7	4.2	N	9	9	5
W017	24/11/2004	62	JMR48	Casuarina	obesa		A		87.5	3.5	N	9	9	5
W017	24/11/2004	63	JMR48	Casuarina	obesa		A		88	5	S	9	9	5
W017	24/11/2004	64	JMR48	Casuarina	obesa		A		90.2	1.6	N	9	9	5
W017	24/11/2004	65	JMR48	Casuarina	obesa		A		93.8	5.4	S	9	7	5
W017	24/11/2004	66	JMR48	Casuarina	obesa		SA		100.3	3.1	N	9	9	5
W017	24/11/2004	67	JMR48	Casuarina	obesa		SA		100	3.7	N	9	9	5
W017	24/11/2004	68	JMR48	Casuarina	obesa		SA		104.9	0.9	S	9	9	5
W017	24/11/2004	69	JMR48	Casuarina	obesa		A		108.9	3.2	S	9	9	5
W017	24/11/2004	70	JMR48	Casuarina	obesa		A		109.3	2.8	N	9	9	5
W017	24/11/2004	71	JMR48	Casuarina	obesa		A		110.4	3.6	N	9	9	5
W017	24/11/2004	72	JMR48	Casuarina	obesa		A		117.3	1.6	N	9	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W017	24/11/2004	73	JMR48	Casuarina	obesa		A		117.9	4.2	N	9	9	5
W017	24/11/2004	74	JMR48	Casuarina	obesa		A		116.8	3.4	N	9	9	5
W017	24/11/2004	75	JMR48	Casuarina	obesa		A		118.5	0.4	N	9	7	5
W017	24/11/2004	76	JMR48	Casuarina	obesa		A		126.5	2.3	S	9	9	5
W017	24/11/2004	77	JMR48	Casuarina	obesa		A		127.4	2.3	N	7	7	3
W017	24/11/2004	78	JMR48	Casuarina	obesa		A		127.1	2.9	N	7	7	4
W017	24/11/2004	79	JMR48	Casuarina	obesa		A		129.7	3.6	S	7	7	4
W017	24/11/2004	80	JMR48	Casuarina	obesa		A		131.5	1.4	N	7	7	3
W017	24/11/2004	81	JMR48	Casuarina	obesa		A		136	3.2	S	7	7	5
W017	24/11/2004	82	JMR48	Casuarina	obesa		A		138.2	4	S	9	7	3
W017	24/11/2004	83	JMR48	Casuarina	obesa		A		139	4.4	S	7	7	4
W017	24/11/2004	84	JMR48	Casuarina	obesa		A		139.3	0.8	N	7	7	3
W017	24/11/2004	85	JMR48	Casuarina	obesa		SA		140	0.2	N	9	9	5
W017	24/11/2004	86	JMR48	Casuarina	obesa		A		145.4	5.9	S	1	3	5
W017	24/11/2004	87	JMR48	Casuarina	obesa		SA		154	44	S	7	9	4
W017	24/11/2004	88	JMR48	Casuarina	obesa		A		155	10.4	N	9	9	5
W017	24/11/2004	89	JMR48	Casuarina	obesa		SA		165	0.2	S	1	1	3
W017	24/11/2004	90	JMR48	Casuarina	obesa		SA		183.8	1.8	S	7	7	5
W017	24/11/2004	91	JMR48	Casuarina	obesa		A		191.7	1.5	N	7	7	4
W018	9/12/2004	667	none	Casuarina	obesa		A		0	0.5	S	3	3	5
W018	9/12/2004	668	none	Casuarina	obesa		A		0.3	0.8	N	3	3	5
W018	9/12/2004	669												
W018	9/12/2004	670												
W018	9/12/2004	671	JMR38	Eucalyptus	loxophleba		SA		8.8	43.5	S	5	5	4
W018	9/12/2004	672	JMR38	Eucalyptus	loxophleba		A		11.7	32.5	S	1	1	4
W018	9/12/2004	673	JMR38	Eucalyptus	loxophleba		A		13.4	24.5	S	5	5	4
W018	9/12/2004	674	JMR38	Eucalyptus	loxophleba		A		16.7	29	N	3	5	2
W018	9/12/2004	675	JMR38	Eucalyptus	loxophleba		A		18.5	32	N	3	5	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W018	9/12/2004	676	JMR38	Eucalyptus	loxophleba		A		20	8.5	N	5	5	4
W018	9/12/2004	677	JMR38	Eucalyptus	loxophleba		A		30.6	8.5	S	7	5	4
W018	9/12/2004	678	JMR38	Eucalyptus	loxophleba		A		35.4	35.9	S	1	1	4
W018	9/12/2004	679	JMR38	Eucalyptus	loxophleba		A		28	43	N	5	5	4
W018	9/12/2004	680	JMR38	Eucalyptus	loxophleba		A		32	33.5	N	7	5	4
W018	9/12/2004	681	JMR38	Eucalyptus	loxophleba		SA		32.5	39.5	N	1	1	3
W018	9/12/2004	682	JMR38	Eucalyptus	loxophleba		A		31.3	44	N	3	5	4
W018	9/12/2004	683	JMR38	Eucalyptus	loxophleba		A		40.8	44	N	5	5	5
W018	9/12/2004	684	JMR38	Eucalyptus	loxophleba		A	Y	47.4	18.4	N	7	5	5
W018	9/12/2004	685	JMR38	Eucalyptus	loxophleba		A		52.5	44	N	3	3	3
W018	9/12/2004	686	JMR38	Eucalyptus	loxophleba		A		72	36	N	5	5	4
W018	9/12/2004	687	JMR23	Melaleuca	thyoides		A		75	6	S	7	7	5
W018	9/12/2004	688	JMR23	Melaleuca	thyoides		A		75.5	7	S	7	7	5
W018	9/12/2004	689	JMR23	Melaleuca	thyoides		A		77.7	6	S	5	5	5
W018	9/12/2004	690	JMR23	Melaleuca	thyoides		A		78.3	3	N	7	7	5
W018	9/12/2004	691	JMR23	Melaleuca	thyoides		A		78.7	3	S	5	5	5
W018	9/12/2004	692	JMR23	Melaleuca	thyoides		A		79.4	0.75	S	5	5	5
W018	9/12/2004	693	JMR23	Melaleuca	thyoides		A	Y	80.5	4.5	S	5	5	4
W018	9/12/2004	694	JMR23	Melaleuca	thyoides		A		81.6	0.25	N	5	5	4
W018	9/12/2004	695	JMR23	Melaleuca	thyoides		A		83.6	1.2	N	5	5	5
W018	9/12/2004	not tagged	JMR17	Melaleuca	hamulosa		A	Y	62.2	5	S			
W018	9/12/2004	not tagged	JMR2	Acacia	eremaea		A	Y	52.4	39	n	7	7	5
W018	9/12/2004	not tagged	JMR38	Eucalyptus	loxophleba		J		35.4	53.8	S	7	5	5
W018	9/12/2004	not tagged	JMR38	Eucalyptus	loxophleba		R		46.4	25	S	9	9	5
W018	9/12/2004	not	none	Santalum	acuminatum		A		62.2	3	S			

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
		tagged												
W018	9/12/2004	not tagged	none	Santalum	acuminatum		A		72.2	25	N			
W019	9/12/2004	696	none	Melaleuca	uncinata complex		J		36.9	9.5	N	1	3	3
W019	9/12/2004	697	none	Melaleuca	uncinata complex		J		37.4	10	N	5	5	4
W019	9/12/2004	698	none	Melaleuca	uncinata complex		A		41.6	11.5	S	5	5	4
W019	9/12/2004	699	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		38.7	12.2	n	1	1	5
W019	9/12/2004	700	none	Melaleuca	uncinata complex		A		42.6	1.5	N	1	1	4
W019	9/12/2004	701	none	Melaleuca	uncinata complex		A		42.2	8.2	N	1	1	1
W019	9/12/2004	702	none	Melaleuca	uncinata complex		J		44.2	1.5	N	3	3	1
W019	9/12/2004	703	none	Melaleuca	uncinata complex		A		45.6	7.3	N	3	3	1
W019	9/12/2004	704	none	Melaleuca	uncinata complex		A		46.1	2.4	S	1	1	1
W019	9/12/2004	705	JMR25	Melaleuca	stereophloia		A	Y	50.6	1.5	S	3	3	3
W019	9/12/2004	706	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A	Y	55	2	N	1	1	5
W019	9/12/2004	707	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		59	5.4	N	1	1	5
W019	9/12/2004	708	none	Melaleuca	uncinata complex		A		62.8	0.8	N	5	5	5
W019	9/12/2004	709	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		64.8	12.5	N	5	5	5
W019	9/12/2004	710	none	Melaleuca	uncinata complex		A		64	5	N	3	3	5
W019	9/12/2004	711	none	Melaleuca	uncinata complex		A		65.2	5.5	N	3	3	4

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W019	9/12/2004	712	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		62.5	5.5	N	1	1	5
W019	9/12/2004	713	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		69.6	5.2	N	1	1	5
W019	9/12/2004	714	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		72.9	7.5	S	1	1	5
W019	9/12/2004	715	JMR11	Melaleuca	lateriflora	subsp. acutifolia	A		64.8	10.5	N	7	7	5
W019	9/12/2004	not tagged	JMR2	Acacia	eremaea		A		52.3	13	N	3	3	5
W022	7/12/2004	534	JMR51	Casuarina	obesa		A		1.3	1.2	N	3	3	4
W022	7/12/2004	535	JMR51	Casuarina	obesa		J		5.1	2.8	S	7	7	5
W022	7/12/2004	536	JMR51	Casuarina	obesa		SA		5.1	5.2	S	7	7	5
W022	7/12/2004	537	JMR51	Casuarina	obesa		J		5.5	2	S	5	5	5
W022	7/12/2004	538	JMR51	Casuarina	obesa		SA		7.4	1.2	N	7	7	5
W022	7/12/2004	539	JMR51	Casuarina	obesa		A		9.4	0.3	S	3	3	2
W022	7/12/2004	540	JMR16	Melaleuca	halmaturorum		A		10.7	4.5	N	1	1	4
W022	7/12/2004	541	JMR51	Casuarina	obesa		SA		11	1.5	N	3	3	2
W022	7/12/2004	542	JMR51	Casuarina	obesa		SA		11.2	1	N	5	5	5
W022	7/12/2004	543	JMR51	Casuarina	obesa		J		11.2	1.1	N	3	3	2
W022	7/12/2004	544	JMR51	Casuarina	obesa		SA		11.3	0.6	S	5	5	3
W022	7/12/2004	545	JMR51	Casuarina	obesa		SA		11.7	0.2	N	3	3	2
W022	7/12/2004	546	JMR51	Casuarina	obesa		SA		11.8	4.1	S	3	3	3
W022	7/12/2004	547	JMR51	Casuarina	obesa		J		12.1	3.4	S	3	3	1
W022	7/12/2004	548	JMR51	Casuarina	obesa		A		13.3	1.6	N	3	3	4
W022	7/12/2004	549	JMR51	Casuarina	obesa		J		14.3	0.15	N	5	5	3
W022	7/12/2004	550	JMR16	Melaleuca	halmaturorum		A		14.4	1.2	S	1	1	4
W022	7/12/2004	551	JMR16	Melaleuca	halmaturorum		A		17.3	1.75	N	3	3	4
W022	7/12/2004	552	JMR16	Melaleuca	halmaturorum		A		18.1	2	S	1	1	4
W022	7/12/2004	553	JMR16	Melaleuca	halmaturorum		A		17.8	5	S	1	1	1
W022	7/12/2004	554	JMR16	Melaleuca	halmaturorum		A		20.4	4.5	S	3	3	4
W022	7/12/2004	555	JMR16	Melaleuca	halmaturorum		A		18.8	1.5	N	3	3	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W022	7/12/2004	556	JMR16	Melaleuca	halmaturorum		A		23.5	5.8	S	3	3	3
W022	7/12/2004	557	JMR16	Melaleuca	halmaturorum		A		25.7	1.5	S	3	3	4
W022	7/12/2004	558	JMR51	Casuarina	obesa		SA		25.2	0.8	N	7	7	4
W022	7/12/2004	559	JMR16	Melaleuca	halmaturorum		A		26.4	0.7	S	1	1	4
W022	7/12/2004	560	JMR51	Casuarina	obesa		A		27.3	2.5	S	5	5	4
W022	7/12/2004	561	JMR51	Casuarina	obesa		A		30.7	2	S	7	7	4
W022	7/12/2004	562	JMR16	Melaleuca	halmaturorum		A		30.2	3.1	N	1	1	4
W022	7/12/2004	563	JMR51	Casuarina	obesa		SA		32.8	4	S	3	3	1
W022	7/12/2004	564	JMR51	Casuarina	obesa		A		34.5	1.4	S	3	3	2
W022	7/12/2004	565	JMR51	Casuarina	obesa		SA		38.3	1	N	5	5	4
W022	7/12/2004	566	JMR51	Casuarina	obesa		SA		38.7	0.8	N	3	3	2
W022	7/12/2004	567	JMR51	Casuarina	obesa		J		38.9	0.7	N	5	5	3
W022	7/12/2004	568	JMR51	Casuarina	obesa		SA		45	3.8	S	5	5	4
W022	7/12/2004	569	JMR51	Casuarina	obesa		SA		47.3	2	N	5	5	4
W022	7/12/2004	570	JMR16	Melaleuca	halmaturorum		A	Y	49.5	3	S	5	5	4
W022	7/12/2004	571	JMR51	Casuarina	obesa		SA		49.8	2	N	3	3	4
W022	7/12/2004	572	JMR51	Casuarina	obesa		J		50.2	1.75	N	1	1	3
W022	7/12/2004	573	JMR51	Casuarina	obesa		SA		50.4	0.25	S	5	5	3
W022	7/12/2004	574	JMR51	Casuarina	obesa		J		51	1.9	N	5	5	4
W022	7/12/2004	575	JMR51	Casuarina	obesa		SA		51.5	1	N	5	5	4
W022	7/12/2004	576	JMR51	Casuarina	obesa		SA		56.6	4	N	5	5	5
W022	7/12/2004	not tagged	JMR16	Melaleuca	halmaturorum		R							
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		R		18.6	2.5	S	9	9	5
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		23.5	5.8	S	9	9	5
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		25.7	0.8	J	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		R		26.5	1.2	N	7	7	5
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		37.1	0.5	N	1	1	3
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		49.5	2	n	1	1	5
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		50.2	0.1	N	1	1	2
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		49.8	1.8	N	3	3	2
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		51.1	0.8	S	3	3	2
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		51.5	0.5	S	3	3	2
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		J		51.1	0.9	S	7	7	5
W022	7/12/2004	not tagged	JMR51	Casuarina	obesa		R		54	4	N	7	7	4
W052	8/12/2004	638	JMR14	Melaleuca	hamulosa		A		7.6	7	N	3	3	5
W052	8/12/2004	639	JMR14	Melaleuca	hamulosa		A		9.1	10	N	3	3	5
W052	8/12/2004	640	JMR14	Melaleuca	hamulosa		A		13.5	12	N	5	5	5
W052	8/12/2004	641	JMR14	Melaleuca	hamulosa		A		15	12	N	7	7	5
W052	8/12/2004	642	JMR14	Melaleuca	hamulosa		A		15.1	12	N	7	7	5
W052	8/12/2004	643	JMR14	Melaleuca	hamulosa		A		15.3	12	N	5	5	5
W052	8/12/2004	644	JMR14	Melaleuca	hamulosa		A		15.2	13	N	3	3	5
W052	8/12/2004	645	JMR14	Melaleuca	hamulosa		A		17.2	6.3	S	1	1	5
W052	8/12/2004	646	JMR14	Melaleuca	hamulosa		A		18.7	7.5	S	5	5	5
W052	8/12/2004	647	JMR14	Melaleuca	hamulosa		A		19.1	6.3	S	5	5	5
W052	8/12/2004	648	JMR14	Melaleuca	hamulosa		A		19.2	6.3	S	5	5	5
W052	8/12/2004	649	JMR14	Melaleuca	hamulosa		A		20.6	2.9	S	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W052	8/12/2004	650	JMR14	Melaleuca	hamulosa		SA		19.5	4.2	N	9	9	5
W052	8/12/2004	651	JMR14	Melaleuca	hamulosa		SA		19.7	4.2	N	9	9	5
W052	8/12/2004	652	JMR14	Melaleuca	hamulosa		MA		22.5	3.3	N	1	1	5
W052	8/12/2004	653	JMR14	Melaleuca	hamulosa		MA		23.6	14	N	5	5	5
W052	8/12/2004	654	JMR14	Melaleuca	hamulosa		MA		24.7	16	N	7	7	5
W052	8/12/2004	656	JMR14	Melaleuca	hamulosa		SA		26.9	4	N	5	5	5
W052	8/12/2004	657	JMR14	Melaleuca	hamulosa		A		28.6	5.5	S	7	7	5
W052	8/12/2004	658	JMR14	Melaleuca	hamulosa		A		30.7	4	S	5	5	5
W052	8/12/2004	659	JMR14	Melaleuca	hamulosa		A		34	2	N	7	7	5
W052	8/12/2004	660	JMR14	Melaleuca	hamulosa		A		35.7	7.5	N	7	7	5
W052	8/12/2004	661	JMR14	Melaleuca	hamulosa		A		37.4	2	S	5	5	5
W052	8/12/2004	662	JMR14	Melaleuca	hamulosa		A		37.8	1.8	S	5	5	5
W052	8/12/2004	663	JMR14	Melaleuca	hamulosa		A		39.8	3.5	N	7	7	5
W052	8/12/2004	664	JMR14	Melaleuca	hamulosa		A		42.2	4.1	N	5	5	5
W052	8/12/2004	665	JMR14	Melaleuca	hamulosa		A		43.2	2.8	S	7	7	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		32.5	1	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		32.7	2.5	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		34.7	0.2	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		35.4	0.2	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		14.1	0		9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		14.6	0.2	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		14.9	0.75	S	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		14.7	1.2	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		15.3	0.5	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		15.5	1.7	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		16	1.7	N	5	5	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		16.2	0.5	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		16.6	1.6	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		J		16.6	1.7	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		17.1	1.7	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		J		17.5	0.5	N	3	3	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		17.5	0.8	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		18.3	0.2	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		19	0.2	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		14.8	1.8	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		15.9	2	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		16.9	2	S	9	9	5
W052	8/12/2004	not	JMR14	Melaleuca	hamulosa		R		17.7	2.4	S	9	9	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
		tagged												
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		17.7	2.7	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		19.5	2.7	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		J		18.1	5.5	N	3	3	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		SA		18.2	5.5	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		SA		18.4	5.3	N	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		SA		19	5.2	N	3	3	3
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		J		19.5	5.4	N	5	5	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		28	1.5	S	9	9	5
W052	8/12/2004	not tagged	JMR14	Melaleuca	hamulosa		R		30	1.5	S	9	9	5
W056	30/11/2004	315	JMR37	Eucalyptus	camaldulensis		A	y	15.8	30	E	7	5	4
W056	30/11/2004	316	JMR37	Eucalyptus	camaldulensis		J		11.3	30	E	5	7	5
W056	30/11/2004	317	JMR37	Eucalyptus	camaldulensis		A		30.7	6	E	5	5	2
W056	30/11/2004	318	JMR37	Eucalyptus	camaldulensis		A		13.3	30	W	3	3	1
W056	30/11/2004	319	JMR37	Eucalyptus	camaldulensis		A		9.5	49	W	7	7	1
W056	30/11/2004	320	JMR37	Eucalyptus	camaldulensis		A		12	89	W	5	3	3
W056	30/11/2004	321	JMR37	Eucalyptus	camaldulensis		SA		27.4	19	W	7	5	4
W056	30/11/2004	322	JMR37	Eucalyptus	camaldulensis		J		31	9	W	7	5	5
W056	30/11/2004	323	JMR37	Eucalyptus	camaldulensis		A		36.1	9	W	5	5	3
W056	30/11/2004	324	JMR37	Eucalyptus	camaldulensis		A		34.3	8	W	5	5	4
W056	30/11/2004	325	JMR37	Eucalyptus	camaldulensis		A		30	2.5	W	5	3	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W056	30/11/2004	326	JMR37	Eucalyptus	camaldulensis		A		32.4	1.5	W	5	3	3
W056	30/11/2004	327	JMR37	Eucalyptus	camaldulensis		A		45.3	38	W	5	5	3
W056	30/11/2004	328	JMR37	Eucalyptus	camaldulensis		A		50 approx	50+	W	1	1	1
W059	30/11/2004	329	JMR49	Casuarina	obesa		SA		1.8	0.3	N	5	5	5
W059	30/11/2004	330	JMR49	Casuarina	obesa		A	Y	8.6	11.25	N	7	5	5
W059	30/11/2004	331	JMR49	Casuarina	obesa		A		10.3	1.6	N	7	5	5
W059	30/11/2004	332	JMR49	Casuarina	obesa		A		13.9	12.3	S	7	5	5
W059	30/11/2004	333	JMR49	Casuarina	obesa		A		17	15.1	S	7	5	5
W059	30/11/2004	334	JMR49	Casuarina	obesa		J		17	12.3	S	5	5	5
W059	30/11/2004	335	JMR49	Casuarina	obesa		J		17.6	5.7	N	7	7	5
W059	30/11/2004	336	JMR49	Casuarina	obesa		A		19.5	10	N	5	5	5
W059	30/11/2004	337	JMR49	Casuarina	obesa		A		20.9	6.8	N	5	5	5
W059	30/11/2004	338	JMR49	Casuarina	obesa		A		22.6	4.5	N	7	7	5
W059	30/11/2004	339	JMR49	Casuarina	obesa		A		23.6	5.2	S	7	7	5
W059	30/11/2004	340	JMR49	Casuarina	obesa		SA		30.1	15.3	S	7	7	5
W059	30/11/2004	341	JMR49	Casuarina	obesa		A		34.1	13.1	S	7	7	5
W059	30/11/2004	342	JMR49	Casuarina	obesa		SA		42.4	11.7	S	7	7	5
W059	30/11/2004	343	JMR49	Casuarina	obesa		A		42.4	4.8	S	5	5	5
W059	30/11/2004	344	JMR49	Casuarina	obesa		A		45.6	9.5	S	5	5	5
W059	30/11/2004	345	JMR49	Casuarina	obesa		A		50.8	4.8	S	7	5	5
W059	30/11/2004	346	JMR49	Casuarina	obesa		A		44.4	11.2	N	7	5	5
W059	30/11/2004	347	JMR49	Casuarina	obesa		SA		63.9	3.3	N	7	7	5
W059	30/11/2004	348	JMR49	Casuarina	obesa		SA		64.4	2.4	N	7	7	5
W059	30/11/2004	349	JMR49	Casuarina	obesa		A		68.6	6	N	5	5	5
W059	30/11/2004	350	JMR49	Casuarina	obesa		SA		63.9	16.2	S	7	7	5
W059	30/11/2004	351	JMR49	Casuarina	obesa		A		71.8	22.6	N	5	5	5

									Location relative to transect			Crown Assessments		
Wetland Number	**Date**	**Tag #**	**Voucher**	**Genus**	**Species**	**subtaxa**	**Size Class**	**Voucher**	**Along**	**Off**	**Side**	**Leaf**	**Brch**	**Epicorms**
W059	30/11/2004	not tagged	JMR49	Casuarina	obesa		R		50.9	5.7	S			
W059	30/11/2004	not tagged	JMR49	Casuarina	obesa		R		52.9	5.8	S			
W061	9/12/2004	728	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		17.2	5.1	N	5	5	5
W061	9/12/2004	729	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		17.7	5.6	N	5	5	5
W061	9/12/2004	730	JMR8	Melaleuca	lateriflora	subsp. acutifolia	SA		16.9	4.1	S	7	7	5
W061	9/12/2004	731	none	Melaleuca	uncinata complex		SA		17.4	2	S	5	5	5
W061	9/12/2004	732	JMR8	Melaleuca	lateriflora	subsp. acutifolia	SA		29.6	2.5	N	5	5	5
W061	9/12/2004	733	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		30.7	7	N	3	3	5
W061	9/12/2004	734	none	Melaleuca	uncinata complex		A		23.4	4.5	S	3	3	5
W061	9/12/2004	735	none	Melaleuca	uncinata complex		A		29.7	2.5	N	5	5	5
W061	9/12/2004	736	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		23.9	5.5	S	1	1	5
W061	9/12/2004	737	JMR8	Melaleuca	lateriflora	subsp. acutifolia	SA		30.4	2	N	5	5	5
W061	9/12/2004	738	none	Melaleuca	uncinata complex		A		30.8	3.2	N	5	3	5
W061	9/12/2004	739	none	Melaleuca	uncinata complex		A		31.3	2	N	1	1	5
W061	9/12/2004	740	none	Melaleuca	uncinata complex		A		31.7	1	N	7	5	5
W061	9/12/2004	741	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		34.9	1.5	S	5	5	5
W061	9/12/2004	742	none	Melaleuca	uncinata complex		A		39.2	3	S	7	7	5
W061	9/12/2004	743	JMR8	Melaleuca	lateriflora	subsp. acutifolia	A		41.9	3	S	5	5	5
W061	9/12/2004	744	none	Melaleuca	uncinata complex		A		44.7	3	N	7	7	5
W061	9/12/2004	745	none	Melaleuca	uncinata		A		46	1.5	S	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
					complex									
W061	9/12/2004	746	none	Melaleuca	uncinata complex		A		46.2	0.7	N	3	3	5
W061	9/12/2004	747	none	Melaleuca	uncinata complex		A		48.4	0.3	S	7	7	5
W061	9/12/2004	748	none	Eucalyptus	loxophleba		A		58.7	20	S	3	3	3
W061	9/12/2004	749	none	Eucalyptus	loxophleba		A		64.8	30	S	1	1	1
W061	9/12/2004	750	none	Eucalyptus	loxophleba		A		64.8	14	S	5	3	3
W061	9/12/2004	751	none	Eucalyptus	loxophleba		A		65.3	11	S	5	5	3
W061	9/12/2004	752	none	Eucalyptus	loxophleba		A		65.3	8	S	7	5	3
W061	9/12/2004	753	none	Eucalyptus	loxophleba		A		71.6	12	S	5	3	4
W061	9/12/2004	754	none	Eucalyptus	loxophleba		A		82	19	S	7	5	4
W061	9/12/2004	not tagged	JMR8	Melaleuca	lateriflora	subsp. acutifolia	SA		42.5	4.5	N	7	7	5
W061	9/12/2004	not tagged	none	Melaleuca	uncinata complex		A		42.5	4.5	N	7	7	5
W063	26/11/2004	200	JMR50	Casuarina	obesa		SA		4.1	9.2	W	1	1	5
W063	26/11/2004	201	JMR50	Casuarina	obesa		A		5.7	10	W	3	3	5
W063	26/11/2004	202	JMR50	Casuarina	obesa		J		7.1	4.7	W	3	5	5
W063	26/11/2004	203	JMR50	Casuarina	obesa		J		8.5	7.2	W	7	7	5
W063	26/11/2004	204	JMR50	Casuarina	obesa		J		8.1	7.3	W	7	7	5
W063	26/11/2004	205	JMR50	Casuarina	obesa		A		10.4	6.4	W	3	3	5
W063	26/11/2004	206	JMR50	Casuarina	obesa		J		9.7	3.7	W	5	7	5
W063	26/11/2004	207	JMR50	Casuarina	obesa		SA		11.5	5.2	W	3	3	5
W063	26/11/2004	208	JMR50	Casuarina	obesa		SA		11.8	2.7	W	3	3	4
W063	26/11/2004	209	JMR50	Casuarina	obesa		SA		12	1.5	W	1	3	4
W063	26/11/2004	210	JMR50	Casuarina	obesa		J		12.1	1.2	W	3	7	5
W063	26/11/2004	211	JMR50	Casuarina	obesa		R		10.4	0.4	E	5	7	3
W063	26/11/2004	212	JMR50	Casuarina	obesa		J		6.4	21.7	E	5	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W063	26/11/2004	213	JMR50	Casuarina	obesa		A		6.6	16.4	E	3	5	5
W063	26/11/2004	214	JMR50	Casuarina	obesa		J		7.6	12.4	E	3	5	5
W063	26/11/2004	215	JMR50	Casuarina	obesa		J		6.2	7.2	E	3	3	5
W063	26/11/2004	216	JMR50	Casuarina	obesa		SA		7.4	5.2	E	3	5	4
W063	26/11/2004	217	JMR50	Casuarina	obesa		J		7.7	2.1	E	3	3	4
W063	26/11/2004	218	JMR50	Casuarina	obesa		J		8.2	3.8	E	3	5	4
W063	26/11/2004	219	JMR50	Casuarina	obesa		J		10.4	2.4	E	3	5	3
W063	26/11/2004	220	JMR50	Casuarina	obesa		J		8.7	2.7	E	3	5	4
W063	26/11/2004	221	JMR50	Casuarina	obesa		R		9.3	5.4	E	1	3	3
W063	26/11/2004	222	JMR50	Casuarina	obesa		J		10	4.8	E	5	7	4
W063	26/11/2004	223	JMR50	Casuarina	obesa		J		10.4	5.9	E	5	5	4
W063	26/11/2004	224	JMR50	Casuarina	obesa		SA		11.1	3.1	E	3	5	4
W063	26/11/2004	225	JMR50	Casuarina	obesa		SA		12	4.7	E	5	7	4
W063	26/11/2004	226	JMR50	Casuarina	obesa		SA		12.3	7.8	E	7	7	5
W063	26/11/2004	227	JMR50	Casuarina	obesa		SA		13.4	3.3	E	5	7	5
W063	26/11/2004	228	JMR50	Casuarina	obesa		SA		13.6	3	E	5	5	5
W063	26/11/2004	229	JMR50	Casuarina	obesa		SA		14	3.5	E	9	9	5
W063	26/11/2004	230	JMR50	Casuarina	obesa		SA		15.1	3	E	9	9	5
W063	26/11/2004	231	JMR50	Casuarina	obesa		SA		15	2.2	E	9	9	3
W063	26/11/2004	232	JMR50	Casuarina	obesa		SA	Y	13.5	8.4	E	3	3	5
W063	26/11/2004	233	JMR50	Casuarina	obesa		R		10.3	10.8	E	7	7	3
W063	26/11/2004	234	JMR50	Casuarina	obesa		SA		8.9	13	E	5	5	4
W063	26/11/2004	235	JMR50	Casuarina	obesa		J		9	12.9	E	7	7	4
W063	26/11/2004	236	JMR50	Casuarina	obesa		SA		10.5	13.3	E	5	5	3
W063	26/11/2004	237	JMR50	Casuarina	obesa		SA		7.8	17.4	E	5	7	4
W063	26/11/2004	238	JMR50	Casuarina	obesa		SA		9.1	18.6	E	5	7	5
W063	26/11/2004	239	JMR50	Casuarina	obesa		J		10	19.2	E	7	7	4
W063	26/11/2004	240	JMR50	Casuarina	obesa		SA		10	19.8	E	5	7	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W063	26/11/2004	241	JMR50	Casuarina	obesa		SA		12.9	19.9	E	9	9	5
W063	26/11/2004	242	JMR50	Casuarina	obesa		A		22.5	15.9	E	3	3	4
W063	26/11/2004	243	JMR50	Casuarina	obesa		SA		17.2	14.4	W	5	7	5
W063	26/11/2004	244	JMR50	Casuarina	obesa		SA		17	8.3	W	7	7	5
W063	26/11/2004	245	JMR50	Casuarina	obesa		J		16.8	6.1	W	7	7	3
W063	26/11/2004	246	JMR50	Casuarina	obesa		SA		20	4.4	W	7	7	5
W063	26/11/2004	247	JMR50	Casuarina	obesa		SA		21.7	2	W	7	7	4
W064	8/12/2004	628	JMR47	Allocasuarina	acutivalvis		SA		7.4	13.5	N	7	7	5
W064	8/12/2004	629	JMR47	Allocasuarina	acutivalvis		SA		7.5	9	S	7	7	5
W064	8/12/2004	630	JMR47	Allocasuarina	acutivalvis		SA		11	3	N	7	7	5
W064	8/12/2004	631	JMR12	Melaleuca	viminea		A	Y	15.2	3.5	N	7	7	5
W064	8/12/2004	632	JMR47	Allocasuarina	acutivalvis		A		18.2	6.4	N	7	7	5
W064	8/12/2004	633	JMR47	Allocasuarina	acutivalvis		A	Y	21.2	2.4	S	7	7	5
W064	8/12/2004	634	JMR47	Allocasuarina	acutivalvis		A		22.3	3.2	N	7	7	5
W064	8/12/2004	635	JMR47	Allocasuarina	acutivalvis		A		25.2	1.2	N	7	7	5
W064	8/12/2004	636	JMR12	Melaleuca	viminea		A		28.6	8	N	5	5	5
W064	8/12/2004	637	JMR47	Allocasuarina	acutivalvis		A		52	1.1	S	7	7	5
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		J		0.4	2.5	S	7	7	5
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		J		1.4	10	N	7	7	5
W064	8/12/2004	not	JMR47	Allocasuarin	acutivalvis		J		5.4	0.5	S	7	7	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
		tagged		a										
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		SA		14.1	4	N	7	7	5
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		J		24	3.2	S	7	7	5
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		J		47.3	2	S	7	7	5
W064	8/12/2004	not tagged	JMR47	Allocasuarina	acutivalvis		J		44.2	4	S	5	5	5
W070	9/12/2004	716	none	Eucalyptus	loxophleba		A		48.8	11	E	1	1	1
W070	9/12/2004	717	none	Eucalyptus	loxophleba		A		53.2	4	E	1	1	1
W070	9/12/2004	718	none	Eucalyptus	loxophleba		SA		51.9	0.7	W	1	1	1
W070	9/12/2004	719	none	Eucalyptus	loxophleba		A		52.5	11.5	W	1	1	4
W070	9/12/2004	720	none	Eucalyptus	loxophleba		A		54	24.5	W	5	5	4
W070	9/12/2004	721	none	Eucalyptus	loxophleba		A		55.3	3.8	W	5	5	3
W070	9/12/2004	722	none	Eucalyptus	loxophleba		A		69	2	W	3	3	4
W070	9/12/2004	723	none	Eucalyptus	loxophleba		A		70.2	0.5	E	5	5	4
W070	9/12/2004	724	none	Eucalyptus	loxophleba		SA		75.2	5.7	W	3	3	5
W070	9/12/2004	725	none	Eucalyptus	loxophleba		A		81.5	2	W	3	3	2
W070	9/12/2004	726	none	Eucalyptus	loxophleba		A		89.2	17.5	E	1	1	1
W070	9/12/2004	727	none	Eucalyptus	loxophleba		A		91.1	13	E	5	3	2
W071	8/12/2004	578	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		3.7	33	N	1	3	5
W071	8/12/2004	579	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	R		15	19.5	N	1	1	2
W071	8/12/2004	580	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		17.9	22	N	3	5	5
W071	8/12/2004	581	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A	Y	15	44	N	1	1	4
W071	8/12/2004	582	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		17	44	N	1	1	4
W071	8/12/2004	583	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		23.3	1.5	N	1	1	4
W071	8/12/2004	584	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		23.3	0.5	N	1	1	5
W071	8/12/2004	585	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		29	4	N	5	5	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W071	8/12/2004	586	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		40.1	40	S	5	5	5
W071	8/12/2004	587	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		32.5	10	S	7	7	5
W071	8/12/2004	588	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		34.2	4.8	N	5	3	4
W071	8/12/2004	589	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		39.3	2.4	N	3	3	4
W071	8/12/2004	590	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		40.8	1.2	N	5	3	5
W071	8/12/2004	591	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		41.1	33	N	1	1	3
W071	8/12/2004	592	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		49	18	S	9	9	5
W071	8/12/2004	593	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		53.6	17.5	N	5	3	4
W071	8/12/2004	594	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		62.4	32	S	5	5	4
W071	8/12/2004	595	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		55.6	21.5	N	5	5	5
W071	8/12/2004	596	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		55.1	46	N	3	5	3
W071	8/12/2004	597	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		56.5	48	N	3	3	4
W071	8/12/2004	598	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		64	1.8	S	9	9	5
W071	8/12/2004	599	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		67.4	7.2	N	7	5	4
W071	8/12/2004	600	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		66.6	8.2	N	3	3	3
W071	8/12/2004	601	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		68.8	5	S	3	3	3
W071	8/12/2004	602	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		67.7	18.2	S	9	9	5
W071	8/12/2004	603	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		70	19.3	S	9	9	5
W071	8/12/2004	604	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		74	23	S	9	7	5
W071	8/12/2004	605	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		69	33	N	1	1	3
W071	8/12/2004	606	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		69	48	N	7	5	5
W071	8/12/2004	607	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		84.6	13	N	3	5	4
W071	8/12/2004	608	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		88	15.2	N	3	5	4
W071	8/12/2004	609	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		87	17.2	N	3	5	4
W071	8/12/2004	610	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		89.6	34	S	7	7	5
W071	8/12/2004	611	JMR6	Melaleuca	eleuterostachya		A		84	9.5	S	9	9	5
W071	8/12/2004	612	JMR6	Melaleuca	eleuterostachya		A	y	94.8	6	S	7	7	5
W071	8/12/2004	613	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		98.6	6.6	S	5	5	5

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W071	8/12/2004	614	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A	Y	104.7	5	S	7	7	5
W071	8/12/2004	615	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		107	9.5	N	5	5	5
W071	8/12/2004	616	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		108.3	8.4	N	5	5	5
W071	8/12/2004	617	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		107.8	10	S	7	7	5
W071	8/12/2004	618	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		110.2	6.5	S	3	3	5
W071	8/12/2004	619	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		110.2	8.7	S	3	3	5
W071	8/12/2004	620	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		110.5	9	S	5	5	5
W071	8/12/2004	621	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		111.6	11.2	S	5	5	5
W071	8/12/2004	622	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		112.3	8	S	5	5	5
W071	8/12/2004	623	JMR7	Melaleuca	lateriflora	subsp. acutifolia	J		113.8	8	S	7	5	5
W071	8/12/2004	624	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		120.3	6.5	S	5	5	5
W071	8/12/2004	625	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		125.7	7.2	N	3	3	5
W071	8/12/2004	626	JMR7	Melaleuca	lateriflora	subsp. acutifolia	A		126.1	1.7	N	5	5	5
W071	8/12/2004	627	JMR33	Eucalyptus	loxophleba	subsp. loxophleba	A		91.6	18.4	N	7	7	5
W071	8/12/2004	not tagged	JMR7	Melaleuca	lateriflora	subsp. acutifolia	J		110.3	5	S	7	7	5
W072	10/12/2004	811	none	Eucalyptus	loxophleba		A		1.4	0.8	S	1	1	3
W072	10/12/2004	812	none	Eucalyptus	loxophleba		A		1.3	0		1	1	3
W072	10/12/2004	813	none	Eucalyptus	loxophleba		A		1.4	1.5	N	1	1	2
W072	10/12/2004	814	none	Eucalyptus	loxophleba		A		1.5	2.2	N	1	1	1
W072	10/12/2004	815	none	Eucalyptus	loxophleba		A		1.3	3.2	N	1	1	2
W072	10/12/2004	816	none	Eucalyptus	loxophleba		A		0.5	3.2	N	3	3	2
W072	10/12/2004	817	none	Eucalyptus	loxophleba		A		0	0		1	1	2
W072	10/12/2004	818	none	Eucalyptus	loxophleba		A		1	1.3	N	3	3	3
W072	10/12/2004	819	none	Eucalyptus	loxophleba		A		0	0.8	S	3	3	5
W072	10/12/2004	820	none	Eucalyptus	loxophleba		A		0	3.4	S	1	1	1
W072	10/12/2004	821	none	Eucalyptus	loxophleba		A		7.4	4.9	S	3	3	4
W074	9/12/2004	755	none	Eucalyptus	loxophleba		A		0.8	0.3	N	1	1	3

									Location relative to transect			Crown Assessments		
Wetland Number	Date	Tag #	Voucher	Genus	Species	subtaxa	Size Class	Voucher	Along	Off	Side	Leaf	Brch	Epicorms
W074	9/12/2004	756	JMR5	Melaleuca	eleuterostachya		A		2.6	6	S	5	7	5
W074	9/12/2004	757	none	Eucalyptus	loxophleba		A		4.9	2	S	3	3	2
W074	9/12/2004	758	JMR5	Melaleuca	eleuterostachya		A		7.3	4	S	5	5	5
W074	9/12/2004	759	JMR5	Melaleuca	eleuterostachya		A		15.6	0.7	S	5	5	5
W074	9/12/2004	760	JMR5	Melaleuca	eleuterostachya		A		19.9	1.5	S	3	5	5
W074	9/12/2004	761	JMR5	Melaleuca	eleuterostachya		A		21.1	3.5	N	3	3	5
W074	9/12/2004	762	JMR5	Melaleuca	eleuterostachya		A		25.8	3.8	S	3	5	5
W074	9/12/2004	763	none	Eucalyptus	loxophleba		A		26.7	7	S	5	5	4
W074	9/12/2004	764	none	Eucalyptus	loxophleba		A		31.7	4	N	3	3	4
W074	9/12/2004	765	JMR5	Melaleuca	eleuterostachya		A		34	3	N	5	5	5
W074	9/12/2004	766	JMR5	Melaleuca	eleuterostachya		A		41.6	1.2	S	5	5	5
W074	9/12/2004	767	JMR5	Melaleuca	eleuterostachya		A		45.4	1.3	S	5	5	5
W074	9/12/2004	768	none	Eucalyptus	loxophleba		A		37.6	7	S	3	5	2
W074	9/12/2004	769	JMR5	Melaleuca	eleuterostachya		A		47.2	4	S	3	3	5
W074	9/12/2004	770	JMR5	Melaleuca	eleuterostachya		A		46.5	4.2	N	5	5	5
W074	9/12/2004	771	JMR5	Melaleuca	eleuterostachya		A		47.4	4.2	N	5	5	5
W074	9/12/2004	772	JMR5	Melaleuca	eleuterostachya		A		50.7	4	S	5	3	5
W074	9/12/2004	773	none	Eucalyptus	loxophleba		A		53.8	1.2	N	5	5	3
W074	9/12/2004	774	none	Eucalyptus	loxophleba		A		54.5	5	N	5	5	3
W074	9/12/2004	not tagged	none	Eucalyptus	sp.		A		50.4	1.5	N	5	5	4

Appendix E Plant size class definitions

Wetland	Voucher Number	Genus	Species	Subtaxa	Mature Adult	Adult	Subadult	Juvenile	Recruit
SPS201	JMR15	Melaleuca	halmaturorum			>1.5 m high (more than 1 stem)	<=1.5 m high with 1 stem		
SPS203	JMR3	Melaleuca	hamulosa			>1.5m	<=1.5m		
SPS203	none	Melaleuca	sp.				<2m high		
SPS203	JMR22	Melaleuca	thyoides			>2m high			
SPS203	JMR13	Melaleuca	viminea				< 1m high		
W001	none	Melaleuca	uncinata complex			> 3 m high	< 3 m	<1.5 m	
W002	none	Eucalyptus	loxophleba			>25 cm dbh	<=25 cm dbh		
W002	none	Melaleuca	sp.			<= 3 m high	Canopy width < 1.5 m and any branches from the base <3 cm	<1.5 m	
W004	JMR29	Melaleuca	sp.			> 1.5 m			
W004	JMR21	Melaleuca	thyoides			> 2 m	< 2 m		
W004	none	Melaleuca	uncinata complex			> 2M	< 2M		
W006	JMR32	Melaleuca	sp.			>=1.5m			
W006	JMR30	Melaleuca	sp.			approx. 1 to 1.5 m			
W008	JMR10	Melaleuca	lateriflora	subsp. acutifolia	>3.5 m height	<=3.5m, >2.5 m and diameter at ground >10 cm <20 cm	<=2.5 metres, diameter at ground <10cm	< 2m	
W009	JMR46	Juncus	acutus			>=1	<1 >.3	<.3>.25, base diameter < .1	<.25 height, base <5cm
W009	JMR 1	Melaleuca	viminea		>=5m	<5 m			
W010	none	Juncus	acutus			>=1	<1 >.3	<.3>.25, base diameter < .1	<.25 height, base <5cm
W011	JMR28	Melaleuca	sp.			>=1.5 m	<1.5 m, >1 m	<= 1m	< .5 m
W015	JMR36	Eucalyptus	camaldulensis		> .5 m dbh	49-31 cm dbh	30-15 cm dbh	5-15 cm dbh	<5 cm dbh
W017	JMR48	Casuarina	obesa			> 6m	<6m		
W018	JMR38	Eucalyptus	loxophleba			> 20 cm dbh		< 2m high	
W019	JMR11	Melaleuca	lateriflora	subsp. acutifolia		> 2 m			

Wetland	Voucher Number	Genus	Species	Subtaxa	Mature Adult	Adult	Subadult	Juvenile	Recruit
W019		Melaleuca	uncinata complex			> 2 m		< 1.5 m	
W022	JMR51	Casuarina	obesa			>=35cm dbh	< 35>=10cm dbh	<10cm dbh	<=5cm at base
W052	JMR14	Melaleuca	hamulosa		> 6 m	<6m, >3.5m	<3.5m, >2m	<2m, >1.3m	<1.3 m
W056	JMR37	Eucalyptus	camaldulensis			> 35cm dbh	<35 cm dbh, > 20cm dbh	< 3 m high, dbh<=5cm	<2m high
W059	JMR49	Casuarina	obesa			>25 cm	<25cm, >10cm	<10 cm	<2m high
W061	JMR8	Melaleuca	lateriflora	subsp. acutifolia		Diameter at grd >15 cm	Diameter at grd <15 cm		
W061	none	Melaleuca	uncinata complex			>3M HIGH	<3m high		
W063	JMR50	Casuarina	obesa			>= 35 cm dbh	<35 cm dbh >=10 cm dbh	< 10 cm dbh, > 5 cm diameter at ground level	<= 5 cm dbh at base of thickest stem if more than one
W064	JMR47	Allocasuarina	acutivalvis			>= 5 m high	>3.5m, <5m	<3.5, >1m	<1m
W064	JMR12	Melaleuca	viminea			>2m			
W070	none	Eucalyptus	loxophleba			>15cm dbh	<15cm dbh		

Appendix F Ground intercept data

Wetland Number	Date	Start (metres along transect)	Finish (metres along transect)	Feature	Size Class
W009	7/12/2004	0	2	Bare ground with wet sand	
W009	7/12/2004	2	2.3	Juncus acutus	SA
W009	7/12/2004	2.3	2.7	Bare ground	
W009	7/12/2004	2.7	3.3	Juncus acutus	SA
W009	7/12/2004	3.3	3.4	Bare ground	
W009	7/12/2004	3.4	3.8	Juncus acutus	SA
W009	7/12/2004	3.8	3.9	Grass litter	
W009	7/12/2004	3.9	4.4	Juncus acutus	J
W009	7/12/2004	4.4	5.3	Juncus acutus	A
W009	7/12/2004	5.3	5.5	Grass litter	
W009	7/12/2004	5.5	5.8	Juncus acutus	J
W009	7/12/2004	5.8	6	Juncus acutus	J
W009	7/12/2004	6	6.2	Juncus acutus	J
W009	7/12/2004	6.2	6.4	Bare ground	
W009	7/12/2004	6.4	6.6	Juncus acutus	SA
W009	7/12/2004	6.6	6.7	Dead ground cover	
W009	7/12/2004	6.7	6.9	Juncus acutus	SA
W009	7/12/2004	6.9	7	Bare ground	
W009	7/12/2004	7	7.3	Juncus acutus	A
W009	7/12/2004	7.3	38.7	Dead grass, Dead Melaleuca sp.	
W010	7/12/2004	0	0.9	Bare ground	
W010	7/12/2004	0.9	2.6	Juncus acutus	A
W010	7/12/2004	2.6	2.9	Juncus acutus	SA
W010	7/12/2004	2.9	3.1	Bare ground	
W010	7/12/2004	3.1	3.4	Juncus acutus	SA
W010	7/12/2004	3.4	4.5	Bare ground	
W010	7/12/2004	4.5	6.1	Dead Juncus acutus	A
W010	7/12/2004	6.1	19	Juncus acutus	A

Wetland Number	Date	Start (metres along transect)	Finish (metres along transect)	Feature	Size Class
W010	7/12/2004	19	19.6	Bare ground	
W010	7/12/2004	19.6	20.4	Juncus acutus	SA
W010	7/12/2004	20.4	22	Bare ground	
W010	7/12/2004	22	22.3	Juncus acutus	SA
W010	7/12/2004	22.3	22.5	Bare ground	
W010	7/12/2004	22.5	23.1	Juncus acutus	SA
W010	7/12/2004	23.1	23.5	Bare ground	
W010	7/12/2004	23.5	23.7	Juncus acutus	SA
W010	7/12/2004	23.7	34.5	Bare ground	
W010	7/12/2004	34.5	36.1	Melaleuca sp. (JMR31)	
W010	7/12/2004	36.1	37.2	Bare ground	
W010	7/12/2004	37.2	39	Melaleuca sp. (JMR31)	
W010	7/12/2004	39	39.8	Leaf litter	
W063	26/11/2004	0	0.15	bare	
W063	26/11/2004	0.15	0.45	Dead leaves	
W063	26/11/2004	0.45	0.9	Juncus acutus	J
W063	26/11/2004	0.9	2.05	Dead leaves	
W063	26/11/2004	2.05	2.25	Juncus acutus	SA
W063	26/11/2004	2.25	2.75	Dead leaves	
W063	26/11/2004	2.75	3.5	Juncus acutus	A
W063	26/11/2004	3.5	4.2	Dead leaves	
W063	26/11/2004	4.2	4.3	Juncus acutus	R
W063	26/11/2004	4.3	4.55	Dead leaves	
W063	26/11/2004	4.55	4.85	Juncus acutus	J
W063	26/11/2004	4.85	5.65	Bare ground	
W063	26/11/2004	5.65	6	Juncus acutus	J
W063	26/11/2004	6	9.5	Bare ground	
W063	26/11/2004	9.5	9.7	Juncus acutus	R
W063	26/11/2004	9.7	10	Bare Ground	
W063	26/11/2004	10	10.05	Juncus acutus	R

Wetland Number	Date	Start (metres along transect)	Finish (metres along transect)	Feature	Size Class
W063	26/11/2004	10.05	10.8	Bare Ground	
W063	26/11/2004	10.8	11.8	Juncus acutus	A
W063	26/11/2004	11.8	12.1	Bare Ground	
W063	26/11/2004	12.1	12.25	Juncus acutus	J
W063	26/11/2004	12.25	12.75	Bare Ground	
W063	26/11/2004	12.75	12.9	Juncus acutus	R
W063	26/11/2004	12.9	13.45	Bare Ground	
W063	26/11/2004	13.45	13.6	Juncus acutus	R
W063	26/11/2004	13.6	13.75	Bare ground	
W063	26/11/2004	13.75	14	Juncus acutus	R
W063	26/11/2004	14	16.3	Bare Ground	
W063	26/11/2004	16.3	16.55	Juncus acutus	SA
W063	26/11/2004	16.55	27.4	Bare Ground	

Appendix G: Fauna Records

W007
Cryptoblepharus plagiocephalus, Black-faced Cuckoo-shrike

W008
Black-faced Cuckoo-shrike, Grey Shrike-thrush, to north White-winged Fairy-wren, galah, Australian Ringneck

W009
Within the wetland: Pacific Black Ducks, 3 x Hoary-headed Grebes, up to 12 Black-winged Stilts, 2x Red-necked Avocets, 12 (approx.) Banded Lapwings
Within the surrounding vegetation: Mulga Parrots, Galahs

W010
Bobtail, Black-tailed Native-hen, 2x Red-necked Avocets, 2 x Black-winged Stilts.

W011
Bobtail, Swans, Black-tailed Native-hen, Red-necked Avocets, Black-winged Stilts, Wedgetail Eagle (nesting in a dead River Red Gum), the Myobatrachid frog *Crinia pseudinsignifera*, in pond with windmill on western side of W011 calling Banjo Frogs (*Limnodynastes dorsalis*).

W015
Barn Owl in tree number 101, *Litoria moorei* (calling)

W022
Red-capped Robin

W052
Banjo frog (*L. dorsalis*) calling, Clamorous Reed-warbler.

W063
Echidna scat

W070
Black-faced Cuckoo Shrike, *Gehyra purpurascens* (gecko)